

September 1992

# The National Locksmith<sup>®</sup>



Special Safe Issue



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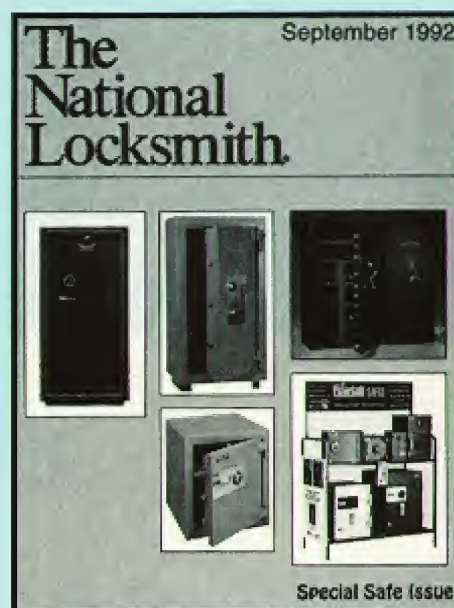
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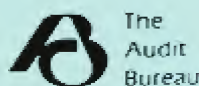
#### On The Cover

Featured on our Annual Safes and Safe Products Issue are (clockwise from top left): Cannon Safe; American Security Products; Fort Knox Security Products; Gardall Safe; and Meilink, a division of Fireking. Please turn to page 34 for the beginning of our "Safes and Safe Products" Product Review section. Get free information from these and all other advertisers by using the Rapid Reply Card.

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### The National Publishing Company

The National Locksmith® ISSN #0364-3719 is published monthly by the National Publishing Company, 1533 Burgundy Pkwy., Streamwood, IL 60107. Phone: 708-837-2044. FAX 708-837-1210. Second class postage paid at Bartlett, IL 60107 and additional mailing offices USPS 040110. Subscriptions \$34.00 per year in the USA; \$36.00 per year in Canada; \$39.00 in all other countries. Single copies \$4.00 each. Postmaster, please send change of address to National Publishing Co., 1533 Burgundy Pkwy., Streamwood, IL 60107.

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Printed in the U.S.A.

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# Commentary

Who Can You TRUST?

I want to take a moment and tell you about an organization to which I have recently applied for membership. This organization serves the industry in which I make my living with a variety of programs. They keep an eye on Washington, D.C. to influence legislation that might affect me. They throw a heck of a gathering each year where I can learn more about the trade. And there are educational programs which can help me upgrade my skills.

What is this group I have recently joined? It is called the Associated Locksmiths of America, or ALOA. Many, maybe even most of you, already know of this association. And if you are not a member, perhaps it is because there are some facets of ALOA that you do not like. Or perhaps you never got around to applying.

Until recently, I was in the second group. Oh, *The National Locksmith* has always been an associate member. However, I personally, had never gotten around to joining. Do I agree with everything that ALOA does? Heck, I don't even agree with everything my *wife* does. (And I bet she can even say the same about me!) The point, though, is that I make my living here with you in the locksmith industry. Anything that helps this industry is tops in my book.

Several months back I was invited to attend an ALOA board meeting in Seattle. I was honored at the invitation, and I was surprised at what I found when I traveled across the country for the meetings. In that one place were assembled ALOA officers, all of them locksmiths just like you. They had all left their businesses, during the week, in order attend to the business of running your association.

When a board member took me to lunch, he paid for my lunch out of association funds, as I was an invited guest. But I noted that he paid for his own lunch with his own personal funds. Your dues do not go into expensive junkets for directors, if they don't even pay for a plate of french fries. I was impressed by what I saw and heard. And, finally, I have gotten around to putting my money where my mouth is.

I sent in an application for membership.

If you have been reading this Commentary column for

any length of time, then I am sure that more than once you have agreed with me when I have argued for or against something. And I am sure that sometimes you have put down your copy of this magazine, shaking your head, wondering how I could be so off the mark. Maybe this will be one of those times. But I will tell you there are some very compelling reasons to be a member of ALOA.

The locksmith industry, in many ways, is under attack. We all know that the retail market is heating up so fast that it is quickly changing the way we do business. Not only are the home centers interested in selling hardware, but they have become interested in selling service as well. The alarm installers are no longer content just to sell alarms, they are also providing mechanical security. (Of course, *you* can't install an alarm, because you don't have the proper license. But they are free to install locks.)

As time passes, our industry will undergo many changes. We will learn to offer more key control via high security, we will become more involved in electronic security than ever before. Locksmiths will improve their education and level of customer service to be able to compete as we approach the year 2000.

I wouldn't be surprised to see more parts of the locksmith industry change in the future. A strong ALOA, a strong magazine like this one, we are working to insure the future prosperity of the locksmith. You can trust me on that one!



*Marc Goldberg*  
Editor/Publisher

September 1992 5



# Letters

## Comments, Suggestions and Criticisms

*The National Locksmith is interested in your view. We do reserve the right to edit for clarity and length. Please address your comments, praise, or criticism to Editor, The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107. All letters to the editor must be signed.*

### Mind And Experience Are Best Tools

Dear Marc:

I just completed reading Shirl Schamp's car opening article about tools and altering their shape or bend. I agree that many tools possess this quality, and I also have been faced with situations where perhaps the tool that was specified for one vehicle would open another if we just take our training and knowledge of the vehicle lock system and combine our professional talents to the job after observation.

An example of this would be GEO Prism and Ford, both with vertical buttons. The only difference is that GEO Prism has rigid lock panels and lock cylinder internal workings, while the Ford has the smooth round pop up button and a five pin system. You could pick the lock on the Ford but on the Prism, or Toyota family car it would be difficult. Never-the-less the tool will work on both, with a difference in the method used which would be the use of wedges plus the tool. Use it accordingly on the right rear door to pull up the vertical button on the GEO Prism. As for Ford 10 Bit I have gotten many compliments on my ability to pick the door's lock cylinder. One individual told me that they did the job quicker and more professionally than my competition.

You might note also that I have found the Metro four door with the horizontal linkage can be opened with an under-the-window tool and wedged with caution due to the tightness of the window and panel. I have noted that the tool intended to open the new

Caprices as well as the newer GM 1500 thru 3500 pick-ups wouldn't work on Caprice due to the security measures that GM has taken. It will work on the pickup but I prefer to use the Horizontal linkage tool, 3/8" wedges and optic light, which can open GM trucks 15-3500 with vertical linkage and bellcrank in about 30 to 45 seconds. As for the others I've mentioned two minutes is the maximum. So you are correct, the book I prefer to use is my own prior experiences and training and my mind.

Willie Brown  
Virginia

### Magazine Regrets Incomplete Caption

Dear Marc:

I thought I would drop you a note to remind you and your staff that while you may still be in the fifties, the rest of the world is in the nineties.

I would be extremely surprised to learn that I am only person to take umbrage over the photo on page 96 of your July 1992 issue. Why is it that the men in your photo have last names and the women don't?

I'm sure that Leslie Kubik and Carole Dickens both appreciated knowing that as far as *The National Locksmith* is concerned, their contributions at Silca don't even merit them having last names.

Let's try to remember that anyone who is doing a job has the right to be treated with respect and dignity and that begins with the proper use of their name!

Martha Bartley  
Texas

*Editor's Note: Dear Martha (Bartley), don't be piqued with your humble editor! I'm ashamed to admit that I was writing captions up against deadline and I just didn't know the last names. However, I do know that Ms. Kubik and Ms. Dickens thank you for your letter.*

### Opening Without I.D. Can Be Trouble

Dear Marc:

A few years ago, I received a lock out call from a young male. He stated that he was locked out of a 1978 Chevy, and that the keys were inside." I told the customer what the price would be and, also, the time of my arrival.

When I located the vehicle I didn't see any keys inside. I asked where are the keys? He said, "I have the ignition key in my pocket, but the door key is in the ashtray, with all my identification." When I unlocked the vehicle door, the customer searched the ashtray, and glove compartment for his I.D. and nothing was found. The young man then told me that he lived across the street in an apartment complex, and that's where his wallet was. I told him that I would wait for him to go and get it.

A few minutes elapsed when a Police Lieutenant and three police officers approached me and asked me for my I.D. After showing my I. D. I asked what the problem was. The policeman told me that the vehicle I unlocked was under investigation for drug trafficking and he wanted to know where the owner was.

I told them exactly where the man told me he lived. About 10 minutes later, the young man was placed handcuffed into the police van.

I was chastised for opening a vehicle without first seeing the proper I.D. I explained the circumstances surrounding the incident and I also said we receive many calls from people who are locked out, but their I. D. is in the car, home, or office.

It is a very precarious situation for the professional locksmith. The only barometer I use is this: Do the neighbors know this person? Is the customer familiar with the area? Does the person find the keys immediately? And if a dog is present, does he recognize the person locked out?

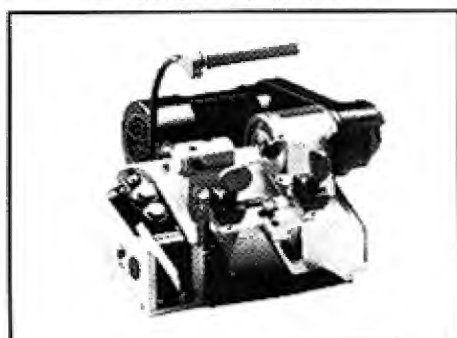
George Azzinaro  
Pennsylvania



# Enter the 1992 Technitips Contest

\$\$\$ Thousands and thousands in cash and prizes! \$\$\$

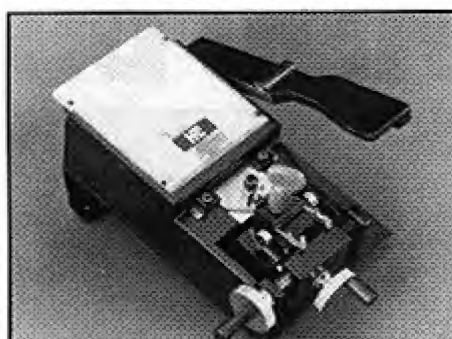
**Silca's Bravo USA**



## First Prize

Locksmith designed, the Silca Bravo USA is a quality semi-automatic duplicator. Four-way jaws hold even the smallest keys as this. One of the most accurate key machines on the market.

**HPC's Punch Machine™**



## Second Prize

The Punch Machine™ (1200PCH) is HPC's newest addition to the 1200 series key machines. It works on the same principle as the 1200CM, making it quite versatile. It is also very accurate and completely portable.

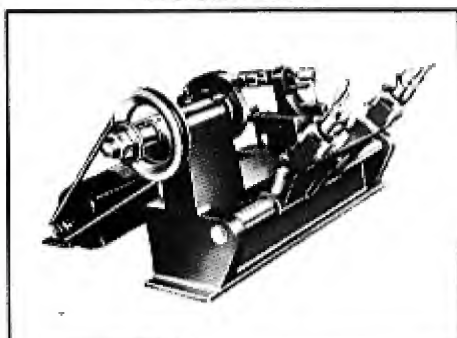
**ESP 5000**



## Third Prize

The model 5000 key machine can be used for manual cutting or, with the flip of a switch, it will cut keys automatically. It is designed to accommodate large head keys such as hotel and foreign auto blanks.

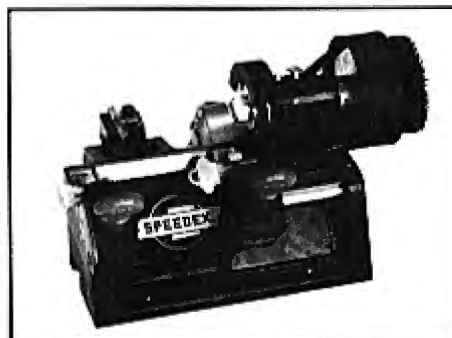
**Belsaw 200**



## Fourth Prize

Duplicate, cut by code, cut flat steel keys. Complete machine with motor, three cutters, guides, and instructions. Built-in micrometer.

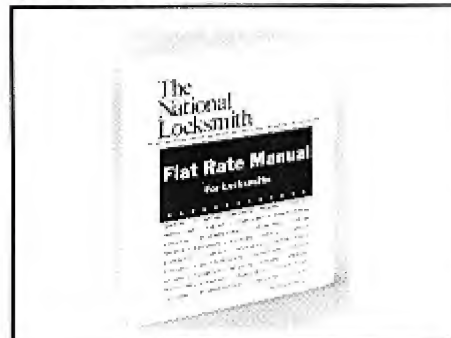
**HPC 9120**



## Fifth Prize

HPC's most compact key cutting machine features reversible jaws. Double-sided copy dog cuts flat steel and safety deposit keys and has softy brush. Excellent versatile machine.

**\$100 Cash & Flat Rate Manual**



## Sixth Prize

\$100.00 in cash will brighten your day! So will the *Flat Rate Manual for Locksmiths*. The manual will help you price your services for profit. You won't ever have to guess how to price again.

\*\*\*\*\*

### Code Books From The National Locksmith

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**General Code Book Set (NGCB)**



## Seventh Prize

These three books contain 450,000 codes covering domestic lock and automobile codes.

**Padlock Code Book Set (NPCB)**



## Eighth Prize

These three volumes offer 462,000 covering Dudley, American (Junkunc), Master and Yale.

**Foreign Code Book Set (NFCB)**



## Ninth Prize

This two volume set holds 432,000 codes for the complete variety of foreign codes, from Alpha Romeo to Yugo.



# Technitips

Helpful Hints from Fellow Locksmiths



Send me your Technitips. Who knows, you may be our next winner! c/o The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107.

by Robert Sieveking

## September's Best Tip

This Technitip is a method that I have used to unlock a Master System 29 padlock. The goal was to open the padlock, while leaving it in saleable condition. We had keyed up a cylinder for a client and assembled the padlock, but without a proper tailpiece. The lock was snapped shut before testing the key, which left us in a very awkward position. We had the proper key for the cylinder, but it would not release the shackle. (This method would also work if you had no key and were unable to pick the cylinder.)

Because of the cost of these units, it was necessary to open the lock without damage that would leave the item unsaleable. Our

method was to drill the retainer plate (Master PN#29-0372) at the points indicated in illustration one. By weakening the retainer plate, by drilling, it was possible to break and pry the pieces out of the lock without noticeable damage to the cylinder or lock body. Use an awl or sharp pick to break the retainer.

After removing the retainer plate, the cylinder will still be retained by the "nut," preventing

direct access to the shackle release. Insert a thin tension wrench between the side of the cylinder and the inside of the lock body. Retract the shackle latches (there are two) by prying them back with the tension wrench. When the shackle is released, the retaining screw can be removed and the nut and cylinder will drop out the bottom of the lock body. Only the cylinder retaining plate

## These Prizes Awarded Each Month!

All-Lock A-7000 VATS Decoder

HPC Pistolpick

Silca Rubberhead Keyblanks (100 blanks)

ESP PR-13 Professional Lock Pick Set

Sieveking Products EZ-Pull GM Wheel Puller

*Submit your tip and win?*

## How To Enter

All you need to do to enter is submit a tip, covering any aspect of locksmithing to The National Locksmith. Certainly, you have a favorite way of doing things that you'd like to share with other locksmiths. Why not write it down and submit it to: Robert Sieveking, Technitips' Editor, The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107.

Tips submitted to other industry publications will not be eligible! So get busy and send in your tips today. You may win cash merchandise, or even one of many key machines or code book sets! At the end of the year, we choose the winners of the listed prizes.

Last year dozens of people walked off with money and prizes. Wouldn't you like to be one of the prize winners for 1992? Enter today! It's a lot easier than you think!

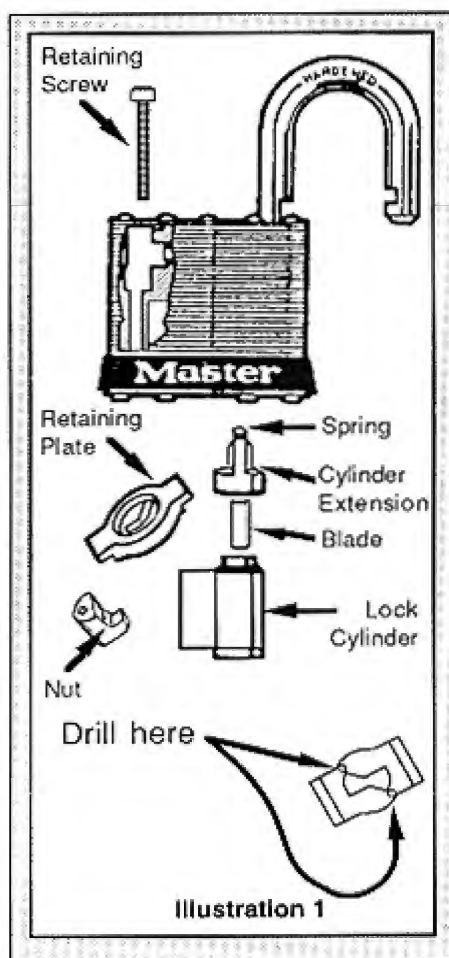
## Every Tip Wins 'Locksmith Bucks!'

Yes, every tip published wins a prize. But remember, you must submit your tip to The National Locksmith exclusively. Each and every tip published in Technitips wins you \$25.00 in Locksmith Bucks! Use this spendable cash toward the purchase of any books or merchandise from The National Locksmith. You also receive a Bonded Locksmith bumper sticker and decal. Plus you are now eligible for the really big prizes!

## Best Tip of the month prizes!

If your tip is chosen as the best tip of the month, you will win \$50.00 in cash as well as \$35.00 in Locksmith Bucks! Plus you will receive a quartz Locksmith watch, a Bonded Locksmith bumper sticker, decal and a Locksmith Cap. Plus, you may win one of the annual prizes.





needs to be replaced when this method is used. Be careful, while drilling the retainer, to avoid damaging the lock cylinder.

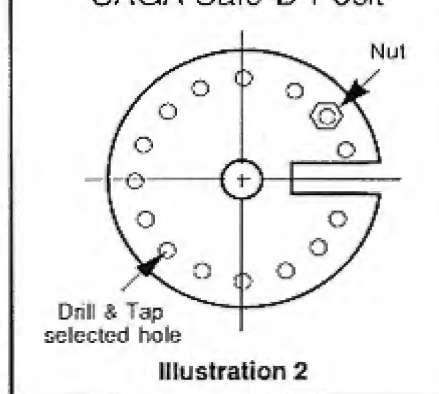
A better tip might be to try the key in the lock, to be sure it operates properly, before closing the shackle. We've had good luck with these padlocks, and find them very handy. We consider it a locksmith's padlock, because of the broad possibility of keying applications.

Gilles Dealur  
Ontario, Canada

#### ESP Pickset Winner

I am writing this Technitip, on the Saga Safe-D-Posit safe, because of the hard time I had when called to recombine the lock. The four number combination is worked; left 4 times to #1, right 3 times to #2, left 2 times to #3, then right to the last number and open. After removing the back cover of the door, to gain access to the wheel pack, I found that the drive cam was like the one shown in illustration two.

#### SAGA Safe-D-Posit



The combination is changed by removing the nut, which is screwed onto a small post on the opposite side of the driver, and repositioning the post and nut into one of the unused holes. The drive wheel was removed from the wheel pack, and I tried to remove the nut. But, try as I might, the nut was not going to be removed from the post. The nut was over-torqued, lock tightened, or just seized to the little post/driver pin, but it refused to budge. After a few minutes of thought, I decided, "If the old drive pin would not be removed I would have to make another."

I drilled and tapped one of the



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unused holes in the drive wheel, to accept a machine screw of approximately the same size as the old drive pin. A machine screw was inserted and tightened into the new location, and the tip ground to the same length as the original drive pin. The old drive pin and nut were then ground flush with the wheel, and the wheel was re-installed onto the spindle shaft. After trying the combination a number of times, and being careful to check the driver closely, I reassembled the door.

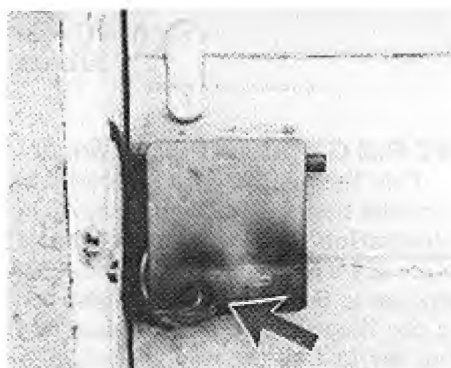
This Technitip allowed the safe to be recombined without replacing the OEM parts that had failed to be serviceable. The combination could also have been changed by rearranging or reversing the other wheels of the wheel pack.

Bill Wessel  
California

\*\*\*\*\*

#### Silca Keyblanks Winner

This Technitip concerns a modification that I made to some garage bolt locks, that allowed the Discus padlock to be used. As you can see in photograph three, the bolt lock



3. Garage bolt lock made for a padlock.

is a type that is designed to use a padlock. The flat iron shield protects the padlock and shackle from most attacks. The problem we had was that the thieves were using a pry tool to bend up the shield and allow access to the shackle of the padlock. A quick snip, with a bolt cutter, and they were in. By using the Discus padlock, the shackle was no longer a liability, but there was no way to insert the key. A round notch, cut out of the bottom of the shield, as you see in the photograph, was the simplest way to allow access to the keyhole. All of the lock shields were modified, as you see, and we have had no more

problems with bolt cutter attacks. This simple modification effectively improves the security of the bolt with very little actual cost to the customer. I'm sure that some other locksmiths will be able to use this tip, when confronted with a similar problem.

Leslie L. Dimitri  
California

\*\*\*\*\*

#### All-Lock VATS Decoder Winner

The following Technitip concerns the Adams Rite 8802SE electric exit bar. The exit bar has an electronic circuit board mounted inside the push bar mounting assembly. The current design if the circuit board has a capacitor on the outermost edge of the card. The cover or push bar can jamb on the capacitor body, when depressed. When the cover bar is pushed, as you would when exiting, the inner rib of the push bar strikes the capacitor. This breaks the circuit board, and jams the bar. To avoid this problem, try the following Tip.

Using any convenient marking agent, apply the stuff to the top of the capacitor. Re-install the push bar and carefully depress the bar, to mark the



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location of the capacitor. Remove the push bar and cut out the section of the rib that contacts the capacitor. Use any tool you are confident with, such as a die grinder or aviation snips. This will prevent any possibility of problems in exiting.

I contacted Keith Wang, a designer of the 8802SE, and informed him of this problem. He assured me that all future units will be modified to prevent the problem. Until old stock is depleted, you should check for this defect when installing the AR 8802 units. Modify them, as outlined above, to prevent any possibility of problems.

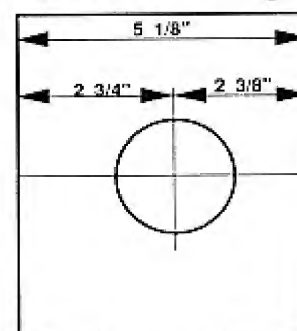
And Gorski  
Arizona

\*\*\*\*\*

#### E-Z Pull GM Wheel Puller Winner

This Technitip is for a low cost and versatile boring jig. The jig, shown in illustration four, was made from a piece of 1 x 6, about 6" long. The piece was cut to 5-1/8" in width, as you see in the illustration, and a center line was marked all the way around. A 2-1/8" hole was bored, as you see, 2 3/8" from one side of the jig. The hole was consequently 2 3/4" from the opposite side. The board/jig is used

#### Universal Boring Jig



gives 2 3/8" & 2 3/4" backset, without adjustment

Illustration 4

with a pair of quick clamps, to accurately locate the cross bore for most standard cylindrical locksets. A similar jig can be made using a 1 1/2" hole, to accommodate the smaller door prep used by Schlage and Weiser deadbolts.

The jig is used with quick clamps, that have large rubber pads. We prefer the jig and clamp arrangement, over metal jigs, because there is much less possibility of scratching or marring the customers door. It works on metal or wood doors.

Because of the simplicity of the jig, I have made others to accommodate specific emergency exit devices, rim and mortise locks. If you install any number of locks, of the same type, the time required to drill the door can be greatly reduced by using a simple jig or rigid hole template. Label the templates with the specific drill sizes and lock types, for quick reference.

Timothy Cousins  
Virginia

\*\*\*\*\*

#### HPC Pistol Pick Winner

Recently I was called to service a Tydel TAC-II, timed access controlled cash deposit safe. In order to service the unit, it was necessary to remove the back panel. Unfortunately, the store counter and cupboard had been built around the safe. There was about 2" of clearance at the top edge of the unit. (See illustration 5.)

To complicate matters further, the original installer had left about 3" of the "T" bolts (used to secure the unit to the floor) sticking up in the bottom of the safe. Obviously, the customer was getting somewhat hyper at the thought of damaging some expensive cabinet work, just to get the TAC-II out to where the back could be

Continued on page 14

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Continued from page 12

removed.

My solution and Technitip for this problem was to open the door, and using my 4" cut off grinder, cut the protruding bolt ends off flush with the tops of the nuts. I then removed the nuts and washers from the bolts.

Then, using a 2 x 4 x 24 piece of lumber as a fulcrum, and my crow bar as the lever, I raised the front edge of the safe as high as I could raise it without damaging the cabinet. With the front of the safe raised as high as possible, I rolled a 1 1/4" socket under the safe, as far as possible, and allowed the safe to settle on the roller. (See

illustration 6.) By gripping the top edge of the door, and using the weight of the out-swung door to counter-balance the safe, I leveled the safe, to bring the bottom above all the mounting bolts. By pulling out and a little downward, the 300 pound giant rolled gently from the confines of the cabinet without a scratch. Rollers can be added, as the safe rolls forward, to prevent the front from dropping, if you like.

After servicing the unit, I laid two lengths of 2 x 4's down, to serve as skids, preventing the safe from tipping or hanging on the bolts, as it was rolled back into its recess. The safe



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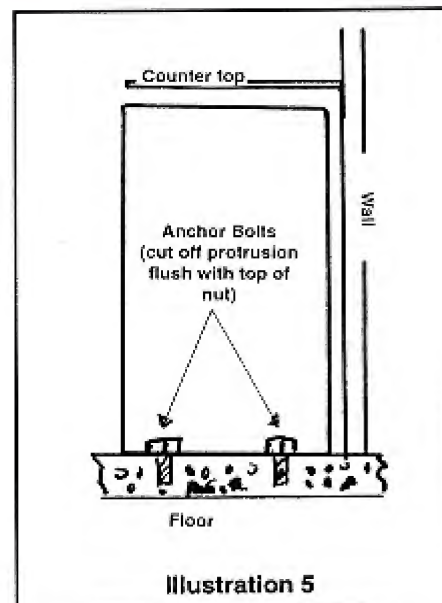


Illustration 5

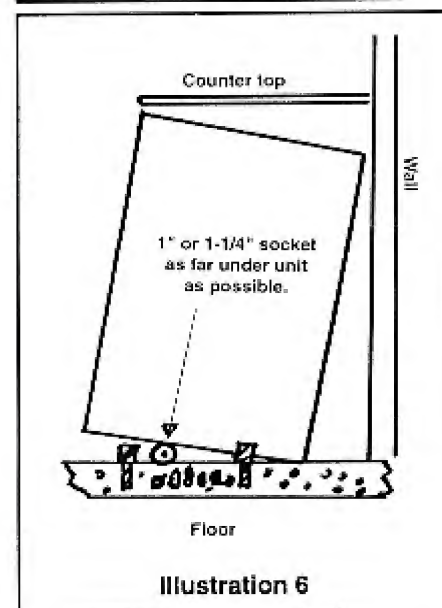


Illustration 6

was located over the bolts, the 2 x 4's slipped out, and the front was again lifted with crow bar, to free the socket. The socket was hooked out, and the safe allowed to settle over the hold down bolts. Nuts and washers were tightened to secure the unit and complete the job.

Not like lifting an elephant or bending steel bars with your bare hands, but for a one man show, I thought it was pretty good. It was safe for the locksmith, and accomplished the task without damaging the tight enclosure. I'm sure I'm not the only locksmith that will ever be faced with this problem, but since many of us work by ourselves, something like this can be a real back saver.

Jake Jakubowski  
North Carolina

\*\*\*\*\*

Continued on page 96



# Newsmakers

## New Products and Industry News

### Jensen Introduces Kit-In-A-Bag

Jensen's new JTK-31 Multi-purpose "Kit-in-a-bag" packs a lot of function in a small package. This low-tech tool kit from the designers of high-tech electronic field service products, provides a collection of the most ordinary, most-used tools for various electrical, electronic and mechanical tasks. All are contained in a durable blue Cordura tool bag that looks rugged enough to withstand years of use and abuse.

Included in the kit are a ball pein hammer, hex key set, knife, pliers (set), vise grip pliers, screwdrivers (set), screwdriver with magnetic tip, socket set, soldering iron, tape measure and adjustable wrench. Tool sets are contained in separate pouches to make tool selection and care easier.



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### Von Duprin Device With Three-Point Latching

Von Duprin, Inc. has added to its product line a new exit device model that feature three-point latching. Developed in answer to requests from the field, the 9957 device combines the mechanisms of the firm's 9927 Two-Point Vertical Rod and 99 Rim devices. Formerly available only as a special, it is now offered as a standard Von Duprin product.

The Von Duprin 9957 exit device is particularly useful where added security is required and on other specialty applications. It features the familiar fluted surface design and is also available as the 9857, with smooth extrusion surfaces. In addition, fire exit models 9857-F and 9957-F are available.



For FREE Information  
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### Pocket Sized Infrared Transmitter System

Securitron announces its model IRT-1 pocket size infrared transmitter and model IRC matching receiver. The transmitter sends an infrared data stream to the receiver that can be programmed to match any access control/data collection type code. The most common application is for integration into access control systems.

The transmitter is used instead of a card and the receiver is used instead of a card reader. The data output from the receiver to the access control system is the same as a card reader.

The main benefit is extreme long range operation. Typical maximum range is 100 ft. indoors and 35 ft. outdoors. Long range, coupled with the fact that the transmission works perfectly through glass, creates an ideal system for use from vehicles.



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## New Keyed Leversets From Master Lock

The graceful, sweeping arc of the Cirrus™, and the sleek, simple lines of the LaSalle™ keyed leversets from Master Lock add sophisticated touches of elegance to any home. Both leversets meet the Americans with Disabilities Act accessibility requirements and are rated Grade 2, Light Commercial. They feature: "hands-free" mounting, which frees both hands to secure the tie screws, a massive inner chassis and ball bearing



locking for top security, a full lifetime warranty and made-in-USA construction, and keyed-alike convenience. The unique design allows cylinders to be exchanged to match Kwikset, Schlage, Weiser, National or Dexter.

Master Lock leversets come in a variety of functions, including: keyed entry - keyed lever outside, turn button lever lock inside; keyed entry - keyed knob outside, turn bottom lever inside; bed/bath; dummy lever and hall/closet.

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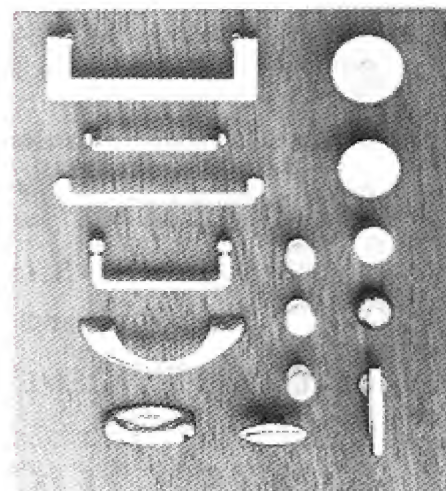
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## Valli & Colombo Hardware Offers Broad Choice

Valli & Colombo (U.S.A.) Inc. has introduced a new selection of Italian designed cabinet hardware for their Valli & Colombo, Fusital and Forges lines.

This collection of pulls and knobs displays the innovative flair and fine craftsmanship which has made the three brands respected by discriminating homeowners, builders and interior designers throughout the world. The new collection, in pressure cast solid brass, satisfies the most demanding tastes and highest standards of quality.

An array of finishes include bright, antique and satin brass, chrome, black, light black, briar wood, white, blue, grey, pink, white porcelain and 24k gold. Various finishes from this selection are found in each brand. Moreover, the cabinet hardware designs from Valli & Colombo are coordinated with their door lever sets.



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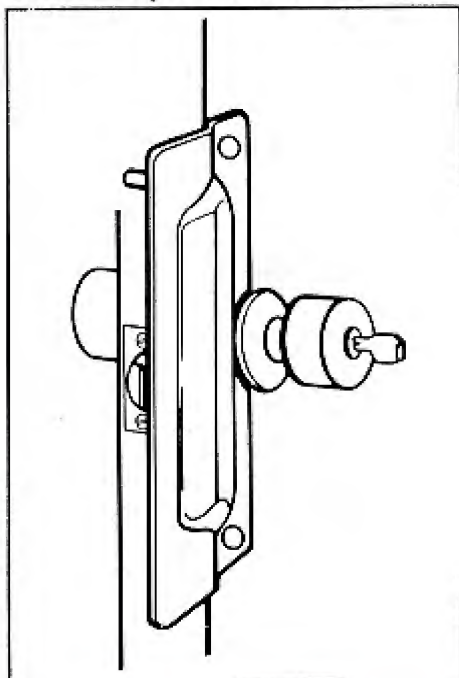
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Continued from page 16

## Don-Jo Announces New Latch Protector

Don-Jo Mfg. announces a new latch protector for outswinging doors. the "PLP Series" features a pin to prevent the spreading of the door from the frame. Unlike others on the market this pin is welded on the back



leaving no visible markings on the outside.

All PLP's have a large cut out to accept up to a 3-1/2" diameter rose. Available in silver, duro and brass plated the PLP's are packed with carriage bolts, washers and cap nuts for strength and safety.

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## Key Blank Services Distributes Wholesale

Key Blank Services is a wholesale distributor of key blanks, key machines, novelties and signs. Since 1977 KBS has developed an extensive inventory of key blanks to serve the industry. In addition, KBS carries a wide variety of key cutting machines, new and used. To compliment their key blanks, they have a large selection of key rings, fobs and related novelties. They recently expanded their inventory to include a large selection of printed signs. Key Blank Services is continually expanding its catalog which is available on request free.

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## A-1 Security Mfg.'s Automotive Roll Pin Kit

A-1 Security Manufacturing Corp. is pleased to introduce the "Automotive Roll Pin Kit" (Product #R10). This kit features over 300 pins of 18 different sizes. Ideally suited for automotive use, this kit has numerous other applications for the locksmith. Replacement pins are also available.



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*Continued on page 20*

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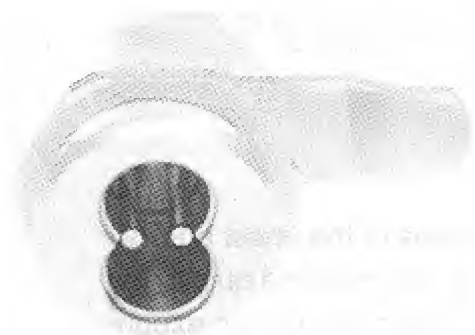


Continued from page 18

## Olympus Lock's Product Catalog

Olympus Lock manufactures a wide variety of re-keyable locks including the 720 Series interchangeable core lock bodies. The I.C. cam lock features a cylinder diameter of 1-5/32" and across flats, 7/8". Available finishes are 26D and US4.

This item along with many other offerings from Olympus Lock are found in their 12 page 1992 Product Catalog.



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## All-Lock Announces Sweepstakes Winners

The All-Lock Company announced the names of the top prize winners in their "Lucky Lock GM Giveaway Sweepstakes" at the ALOA show in Baltimore, MD on Saturday, July 25.

The grand prize, a 1992 GMC Safari Van, was won by Jeffrey Boudreaux of Kenner, LA. Mr. Boudreaux's name was selected from the thousands of locksmiths who entered the contest by an independent judging firm in New York. The happy winner was presented with the keys to his new van, in a well attended ceremony, on the show floor, by Russell "Rusty" Alsbrook, All-Lock's National Sales Manager. Also present was Mike Groover of Acme Wholesale Distributors.

The first prize, \$1,000 worth of All-Lock products, was awarded to Robert Leatherwood. Second prize, \$5,00 in products went to "Buzz" Schoeffling of New Jersey.

In a short speech before the award ceremony, Alsbrook thanked the crowd for their support of the All-Lock product line. He also detailed some of the company's long history of manufacturing quality products for the

major car factories including Ford, Chrysler, Honda and, of course, General Motors. In fact, the Grand Prize GM van was equipped with All-Lock locks right out of the factory.

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## Monaco Carries Locknetics-Security Eng.

As new technology in electromagnetic locks continues to grow, Monaco Lock Company remains ahead of the pace by carrying the complete line of Locknetics-Security Engineering. From the introduction of their new 390 series dual voltage, 1500 lbs. holding force magnetic lock and their new mortise shear lock - the 280 series, Locknetics-Security Engineering now unveils its new 320 series dual voltage Miniline Maglock and its new generation of modular power supplies, the 505, 510 and 515 series.

As an authorized master stocking distributor, Monaco Lock Co. has the quantities you need at competitive prices. They offer same day shipping nationwide, technical support, and a 24 year reputation of courteous and reliable service.

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by Tom Seroogy

## The 1992 Celica

*"There are a few design differences on this car that need to be taken into account."*

**D**espite its appearance, the 1992 Celica is an easy car to work on, but there are a few design differences that need to be considered. (See photograph 1.)

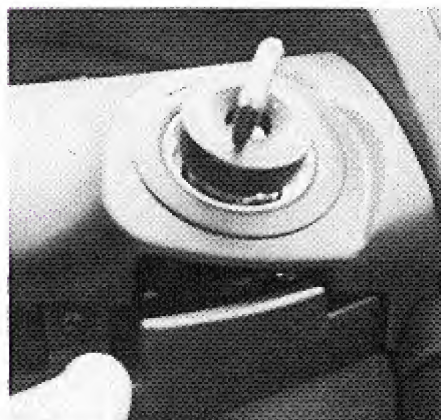


1. The 1992 Celica convertible.

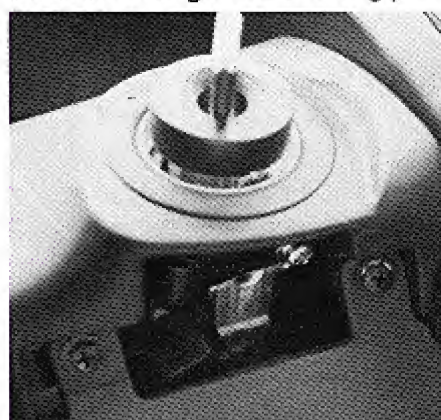
The Celica in this article needed all of its locks rekeyed, it had an airbag and a tilt wheel. To diffuse any concern over the airbag, I disconnected the battery. Under normal conditions this is probably not necessary. The ignition switch is in the dash area, and unless the whole ignition housing is going to be removed or worked on, there is no need to remove the column shroud, exposing the airbag wiring harness.

To remove the ignition I lifted away a small snap-in cover just below the switch (see photograph 2) and dropped the buzzer activator to create a little more room. (See photograph 3.) Using a wire (coat hanger) formed to reach around and to the top of the ignition, I turned the key to the "ACCESSORY" position and depressed the retaining button. (See photograph 4.) The button was a little hard to find, but certainly a lot easier than removing the dash trim.

To disassemble the ignition (see photograph 5) required the removal of one facecap retaining pin. Gently tapping the facecap, press fittings loose on the backside of the lock. (See photograph 6.) To remove the retaining pin I drilled a hole from the



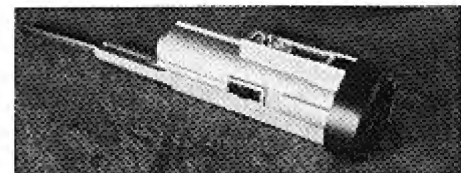
2. Removing this trim piece gives access to the ignition retaining pin.



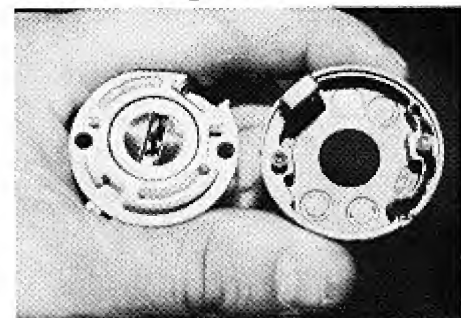
3. Dropping the buzzer activator switch allows for a little more room.



4. The wire and Ignition



5. The Celica Ignition.



6. The facecap after removing a retaining pin and punching through the press fitting.

side of the pin and pried it out with a scratch awl. (See photograph 7.) The plug slid out of the cylinder after removing a snap ring on the back. Tumblers were found for spaces 1-8.



7. The disassembled lock.

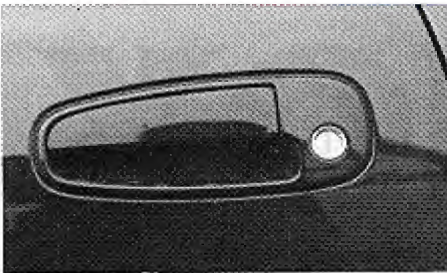
This particular vehicle used the P1-2000 code series, the Ilco TR40 keyblank and the XF88 code card. The Auto Security Products #A30-106 keying kit was used to rekey the ignition as well as the rest of the locks.

The door lock was part of the handle (see photograph 8), and it was necessary to remove the whole handle to make a key or service the lock. Removing the door panel was the first challenge of retrieving the handle and lock. (See photograph 9.) While many of the screws are easily visible beneath small button caps,

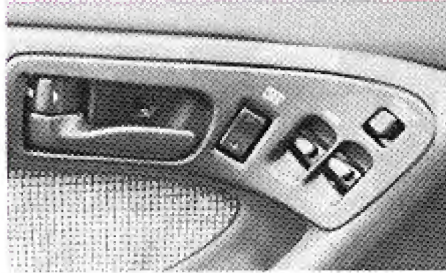
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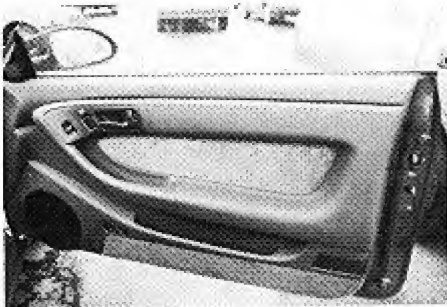
8. The Celica handle and door lock.



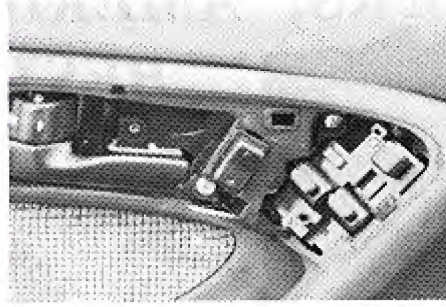
10. Remove the door handle trim.



12. Door panel light covers a screw.



9. This door panel hides many screws.



11. Two of the screws exposed.



13. Celica decal covers a screw.

many more are hidden.

The first hidden screw was behind the door handle trim. (See photograph 10.) After removing a small screw directly behind the handle, the trim piece was pried up and out. This exposed two door panel screws. (See photograph 11.)

The next one was found behind the

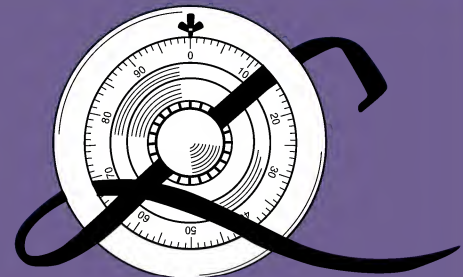
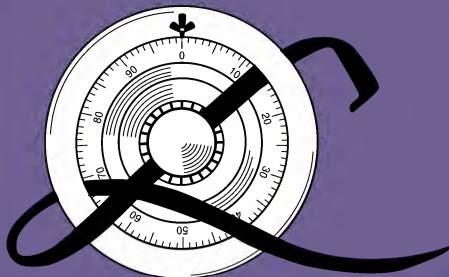
door light. Again, gentle prying removed the light and light cover. I disconnected the light from its wire and removed the door panel screw. (See photograph 12.)

The final screw was found behind the "CELICA" emblem. Prying this emblem out revealed one more door panel screw. (See photograph 13.)

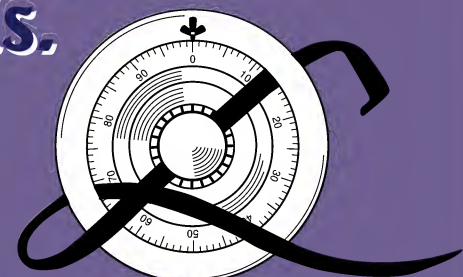
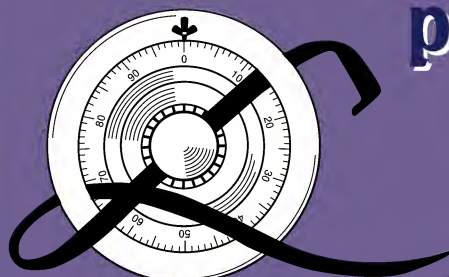
With this screw removed the door panel was lifted up and out exposing a black plastic cover held in by two screws. (See photograph 14.) Removing this cover gave easy access to the door handle, linkage and lock. (See photograph 15.)

At first glance it looked like

Continued on page 26



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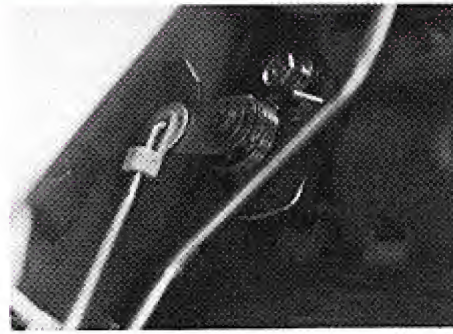


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14. Still another cover to remove.

removing the door lock was simply a matter of removing a wire door clip. But, in the words of this decades most renowned philosopher, "NOT!"

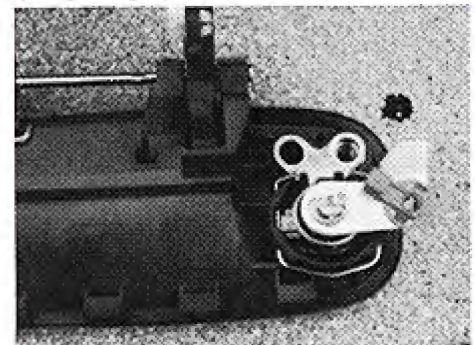


15. Accessible lock, handle and linkage.

The lock was actually held in place between the handle and the car body. The bolt from the handle passed through a flange on the lock body and

then through a mounting hole on the car body. The only way to remove the lock was to remove the whole handle. While a code was stamped on the passenger door lock, it could not be seen until the lock was removed.

To remove the handle required disconnecting the lock and handle linkage, and removing two 10mm nuts. (See photograph 16.) With the handle out of the door the wire clip was removed and the lock removed. (See photograph 17.)

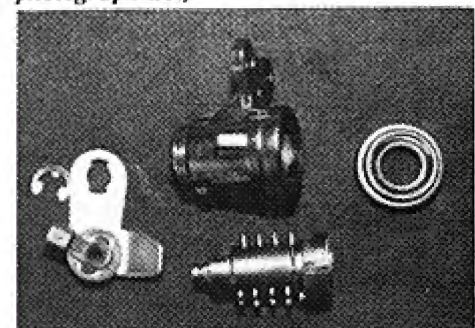


16. The handle, with lock removed.



17. The door locks. Notice the flange that holds the lock to the car body.

Removing the reusable facecap on the front and the snap ring and pawl on the back allowed the plug to slide out of the cylinder. The door locks also held tumblers in spaces 1-8. (See photograph 18.)

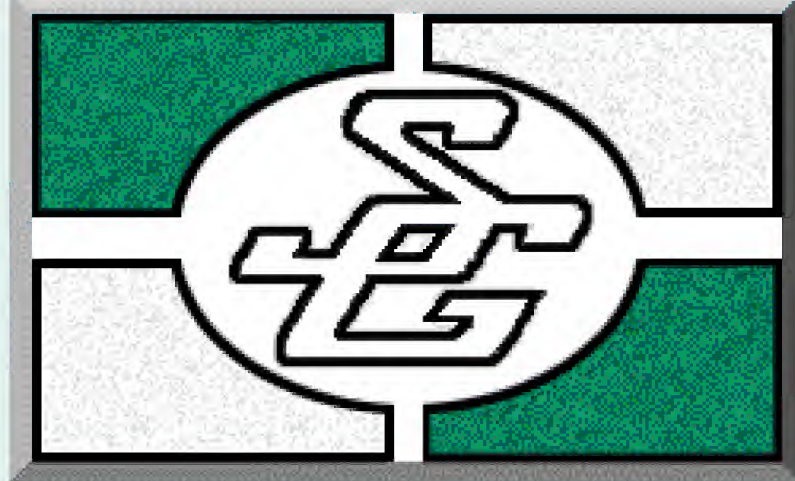


18. Disassembled door lock.

The trunk lock was easy to remove and service. Pulling the trunk liner back exposed two 10mm bolts that held the lock in place. (See photograph 19). After removing the bolts and the trunk release cable, the lock slide back and out. (See photograph 20.)

Disassembly of this lock also

Continued on page 97



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## Car Opening...

# Openers From Pro-Lok

*"Car manufacturers all tend to use just a few similar locking design; learn to by-pass them."*

### Opening Terms:

To fully understand car opening there are a few terms and definitions that you should understand:

**Opening Tool** - This is the device which is used to by-pass the door's locking system. Typically these are a tool made of a flat bar of steel (*Slim Jim* type) or made of a heavy wire stock (similar to the *MCOT* tools).

**Opening Light** - This is a tool which is used to illuminate the interior of a car door. Typically used to locate the locking rods inside the door.

**Wedge** - The window wedge is used to spread the weather-stripping away from the window making it easier to see inside the door and to allow you to maneuver opening tools.

**Lock Button** - Located inside the car and usually visible through the window. These are the devices which the occupants of the car use to lock and unlock the car from inside. Vertical Buttons are usually located at the top of the door, horizontal buttons are usually located on the side of the door.

**Door Handle** - The door handle is mounted on the outside of the door and is used to open the door from outside the car after the car has been unlocked.

**Lock Pawl** - The pawl is located at the back of the door lock cylinder. Pawls are either "lazy" which means if you push or pull the pawl it will move, or fixed, which means the key must be in the lock for the pawl to be able to move.

**Bell Crank** - Bell crank's are used inside doors as part of the linkage. These levers are typically

*Continued on page 30*

Opening cars is one of the skills that can be developed that is both interesting and challenging as well as very lucrative. But to be proficient it is important to understand the principles of automotive lock system technology. There are only a few designs that all of the manufacturers tend to follow. If you understand how to by-pass these designs, then you will be able to open almost any car quickly and efficiently. In this article we are going to cover the types of locking systems, and techniques that will allow you to open 98% of the cars on the road today.

Locking systems generally fall into two basic categories Vertical and Horizontal locking systems. Vertical systems usually have a lock button on the top of the door. Horizontal lock systems usually have a slide or flip button mounted on the door panel inside the car.

To open cars with vertical buttons you can use the following tools:

**The Large Handy Tool** - Vertical buttons are often exposed from underneath this is an excellent way to open these vehicles. To use the tool you simply wedge the window and insert the tool opposite the interior lock button. Lower the tool until the tip of the tool is below the glass. Pull the tip of the tool up underneath the button and lift to unlock. This technique works on the new Hyundai Sonata, the Ford Explorer, and the new Nissan Maxima as well as many others. (See illustration 1.)

**The Astro Tool** - Generally thought of as a horizontal lock tool, the Astro tool is very effective when used to trap a vertical rod. To use the Astro tool in this manner, Insert a wedge across from the vertical lock button. Insert the Astro tool on an angle and push down until you contact the rod, hook the rod in the tip of the tool. Rotate the tool to bind the rod and lift

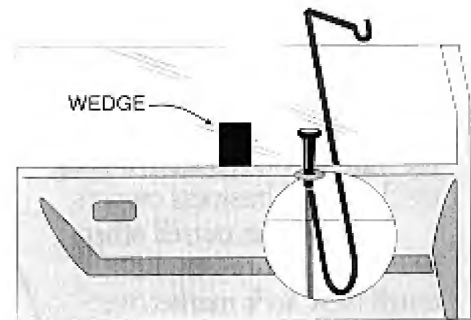


Illustration 1

to unlock. Use this technique on many pre-'82 GM cars as well as pre-'88 Toyota 4 door Corolla's. (See illustration 2.)

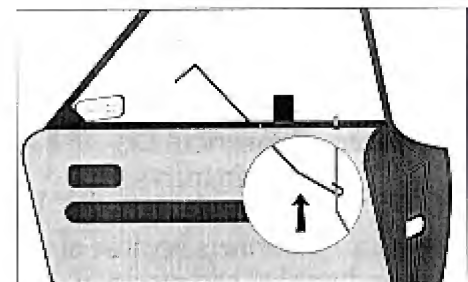


Illustration 2

**The Slim Jim®** - This is the most widely know car opening tool. If properly used the Slim Jim can open many cars simply with no damage. Unfortunately the *Slim Jim* is also the most misused car opening tool. To properly use the *Slim Jim* to open vertical rod cars, insert a wedge in the middle of the door. Lightly curve the end of the tool so it tapers in towards the interior of the car. Insert the tool into the door and lower the tool down about 16 inches into the door. Slide the tool across the door until the tool contacts the vertical button rod (you will see the button move inside the car). Maintain a slight pressure against the rod, and slowly begin to draw the tool out of the door. As the tool is drawn up out of the car, the

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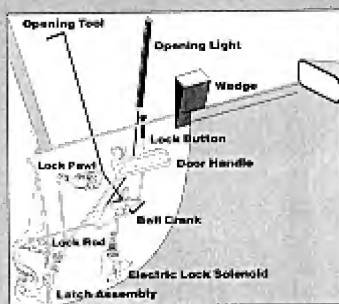
used to change the direction of a lock rod.

**Lock Solenoid** - These devices are used in power door lock systems. When the factory installs the electric locks this is the device used to push or pull the linkage into the locked/unlocked position.

**Latch Assembly** - This is the device that actually holds a car door closed. The latch assembly is usually located at the rear edge of the door.

**Lock Rod** - Often called the linkage or linkage rod these are the rods that connect the door lock button and the door lock cylinder to the latch assembly.

(See illustration below.)



bend will begin to straighten. As the tool straightens, you will feel the button rod fall into the notch on the side of the tool. Continue lifting while maintaining the slight pressure against the rod. As you lift, the tool will bind the rod and pull the rod up along with the tool. (See illustration 3.)

**The Toyota Tool** - This is a special tool designed to by-pass the special linkage guards on Toyota cars and trucks. To use this tool insert a wedge into the middle of the door and lower the tool into the door until the tip of the tool is below the protected bell crank. Lift the tip of the tool under the bell crank and lift up to unlock. This tool works on the Toyota Pickups, Corolla 2 doors, and the 4Runner. (See illustration 4.)

**The Button Finger** - This is a unique tool used to open vertical rod cars that have a locking button with the finger pocket feature. To operate the Button Finger, use a wedge and lower the tool into the door until the rounded edge of the tool is below the glass. Pull the tool up so the rounded edge comes up on the inside of the glass. Remove the wedge and continue lifting the tool until the tip of the tool enters the interior of the car.

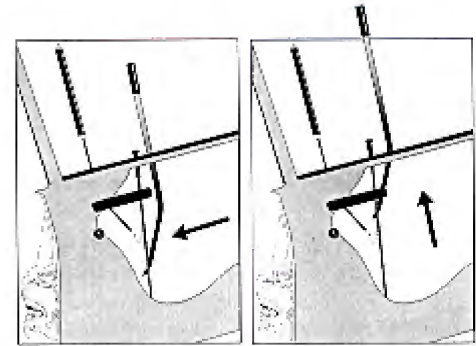


Illustration 3

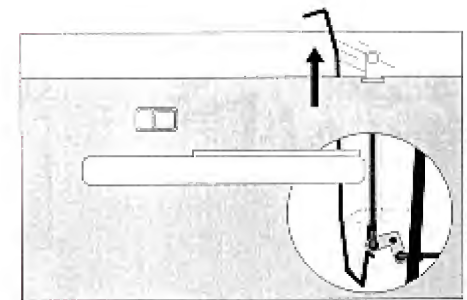


Illustration 4

Position the tip of the tool in the pocket and lift to unlock. This technique works great on the Chrysler New Yorker, the Mitsubishi Montero, the Audi 100 and many others. (See illustration 5.)

Continued on page 32

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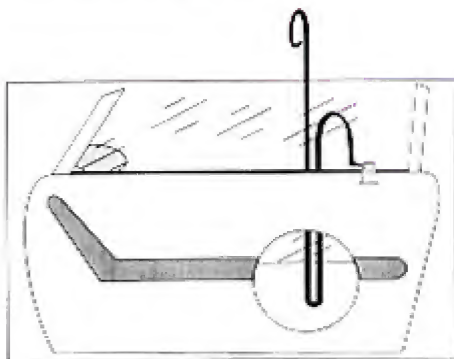


Illustration 5

The second type of locking system is the horizontal rod type. These systems started appearing on domestic cars around 1982 and are very common now in both domestic and imported cars. To bypass a horizontal rod system, you can use a tool which binds the rods and allows you to manipulate them either forward or backward.

The *Slide Lock Tool* - Originally designed in '82 to open GM autos, this tool has become very versatile in opening many models of cars. To use the tool wedge the window and lower the tool until the tip of the tool is below the glass. Rotate the tool 90 degrees and lower the tool until it sits on the horizontal rod. Move the tool until the rod is in the recess in the tip of the tool. Twist the tool to bind the rod and pull or push the rod to unlock the door. Use this technique to open most Japanese cars with horizontal rods including Nissan, Mitsubishi, Suzuki and Isuzu. (See illustration 6.)

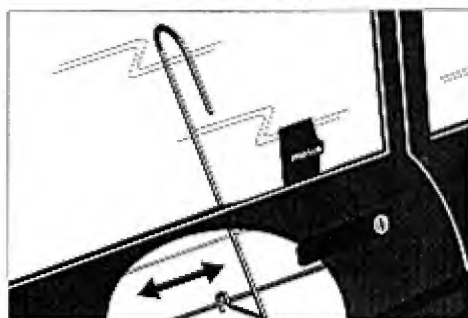
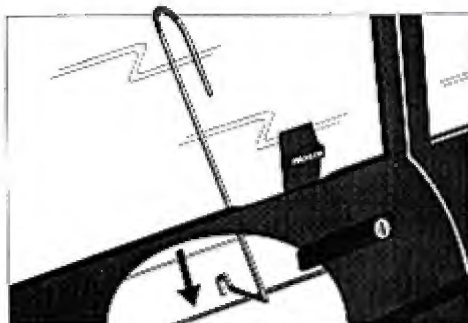


Illustration 6

The *Astro Tool* - On horizontal rods this is used the same way as the Slide Lock Tool but in reverse. With the Astro Tool you come up from under the rod, hook the rod and twist to bind. Then you can push or pull forward or backward to unlock the car. This tool works great on Wagoneer and Cherokee. (See illustration 7.)

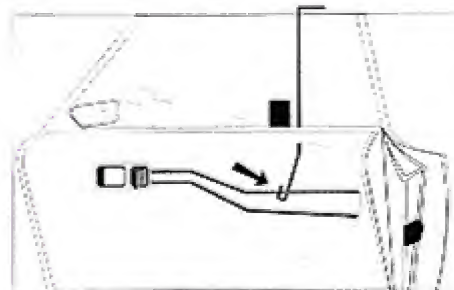


Illustration 7

The *MCOT Tool* - This unique tool enters the interior of the car and allows you to open the car without touching the linkage. To use the tool insert a wedge in the middle of the door and lower the tool until the round edge of the tool is below the glass. Rotate the tool about 15 degrees and lift the tool up, working the tool into the car on the inside of the glass. Continue lifting until the tip of the tool is inside the car. Position the tip of the tool onto the lock button and move the button forward or rearward just like the occupant of the car would do with his or her finger. The MCOT tool opens most GM cars including Chevrolet, Olds, Buick, Cadillac and GMC. (See illustration 8.)

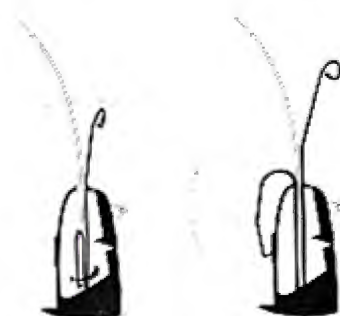


Illustration 8

With these tools and techniques you will be able to open 98% of the cars on the road today! With a little practice each of these techniques will be easy for you to master. §

## Special AK-92 Kit

Pro-Lok manufacturers a special Kit AK-92 that has each of the tools mentioned in the article. These tools are housed in a special cloth case manufactured of "ballistic nylon." This heavy duty cloth is the same material that is used to make bullet proof vests. The case is designed in a convenient tri-fold design that closes like a brief case. The interior of the case has a pocket for each of the tools, so your tools stay neat and orderly inside the case.

The Kit includes 15 pieces including a handy *Mini Tech Manual* which covers opening tips on over 400 different cars. Included in the *Mini Tech Manual* are illustrated instructions for use of each of the tools.

In addition to the AK-92 Pro-Lok offers an excellent car opening manual that covers opening instructions car-by-car for over 300 different cars. The MA-CB 1 shows pictures of each car and cut away drawings of the doors to make your car opening easier than ever. The kit and the opening book are available from any authorized Pro-Lok distributor. (See illustrations A and B.)

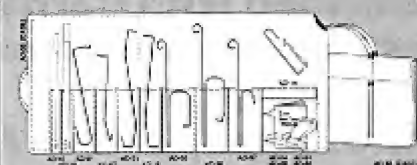


Illustration A

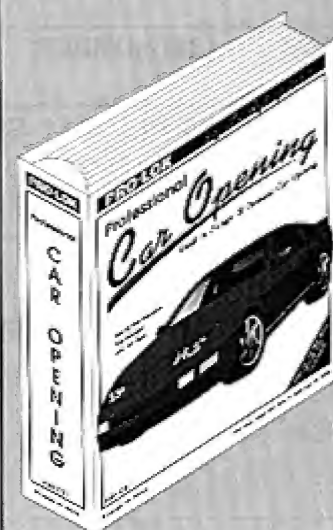
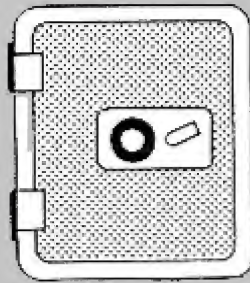
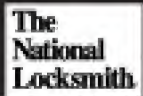


Illustration B





# Safe

# Information

In this section you will find a number of products by various safe manufacturers. As a locksmith, you offer security of many kinds to your customers. Many of you already handle safes; some of you do not. However, almost all of you do know that selling safes can be a profitable experience for a locksmith company. First there is the profit on the original sale. Then there is the follow-up service you can offer. Calls such as combination changing can really help pay the rent.

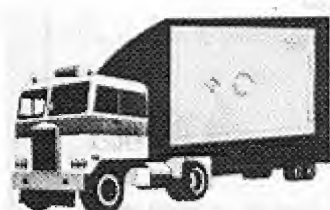
In this product review section we have tried to bring together a representative sampling

of the safes that are offered to the trade. Of course, it is impossible to have every manufacturer represented here. But we have tried to assemble a good sampling of material for you to examine.

If you feel you need more information about any of the items presented here, please use the Rapid Reply Card to request literature. You will find the reply card between pages 100 and 101 of this issue. If you do not currently handle safes, give it some thought. You might be overlooking a product line that could add to *your* bottom line. MG

## Ambassador's Free Freight Program

Ambassador Safe Company has come up with an idea to save you more money, called Ambassa-Trucks! Ambassa-Trucks enables you to obtain *free freight* with the purchase of ten or more safes. Just place your order for any ten assorted fire safes with a combined weight of 1200 pounds or more and they will pay the freight provided the shipment is to one location at one time.

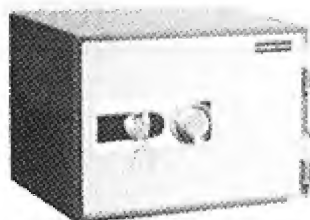


Circle 297 on Rapid Reply

## Adesco Safe Since 1976

The 1976 ALOA convention marked the introduction of Adesco Safe Manufacturing Company to the physical security industry. Since then it has grown consistently and currently has two factories covering both East and West coasts.

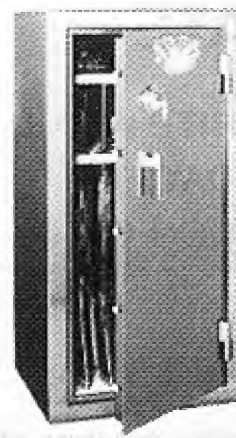
Adesco's focus is "economy combined with quality." One of the goals the founders wanted to achieve was to provide a quality product at an affordable price. With each safe manufactured, Adesco proves that American craftsmanship is not entirely dead.



Circle 298 on Rapid Reply

## The AMSEC Classic Series

The AMSEC Classic is the latest addition to American Security's gun safe product line. When elegance is as important as performance, the Classic series offers an attractive baked-on enamel finish in burgundy or gray, a decorative "The Right To Keep and Bear Arms" emblem, and a brass key-locking dial.



Circle 299 on Rapid Reply

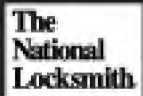
## Armor Safe's ATM Models

Armor Safe Corporation is now manufacturing a number of ATM safe models. These specialized safes require extremely tight tolerances to successfully interface with the financial industries' computer equipment and security mechanisms. Armor utilizes state-of-the-art laser, plasma, and oxy cutting systems, CNC drilling and tapping machines, along with electric static painting systems to meet their customers rigid product specifications.



Circle 300 on Rapid Reply

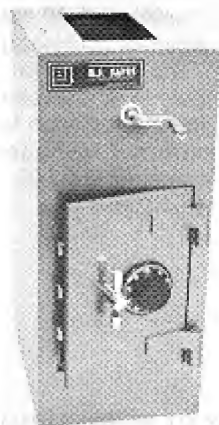




Continued from page 34

## B.J. Safe's Depository Safes

B.J. Safes introduces its quality, low priced line of depository safes suited for homes, offices and retail businesses. Valuables can be deposited through the spacious heavy duty rotary hopper located at the top of the safe at any time. All safes are quality crafted with seamless 1/4" thick steel body and 1/2" thick steel door with 3 locking bolts.

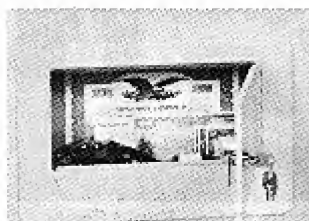


Circle 301 on Rapid Reply

## Buddy Products' Economy Wallsafe

Everyone has something that needs safekeeping. The solution is a convenient wallsafe that installs in minutes between the wall studs in the home office or garage.

The model 3105 from Buddy Products features heavy duty steel construction, full piano hinges, durable putty finish and secure tubular lock and two keys. Flush mounting allows easy concealment.



Circle 302 on Rapid Reply

## Fichet Announces New Silver Safe

Norm Brauner, the new president of Fichet-Brauner U.S.A., announced the introduction of the new Fichet Silver High Security Safe.

The Silver's body is 2" thick, filled with an extra-hard agglomerate of 7,000 PSI compressive strength. This agglomerate offers high resistance of drilling and cutting, as well as to torch attacks.

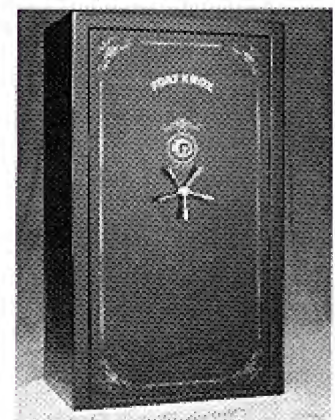
In addition to burglary protection, the Silver's composite walls provide a minimum of one hour fire protection for paper documents.



Circle 303 on Rapid Reply

## Fort Knox Security Vaults

Fort Knox has always been a trusted name in security. It is with this in mind that the makers of Fort Knox safes and vaults create peace of mind for home and business; the peace of mind you experience by knowing that personal heirlooms, Business and family records, guns, jewelry, and works of art are safe from burglars and fire. The Chuck Yeager executive edition is one of their popular safes.

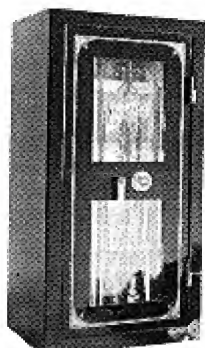


Circle 304 on Rapid Reply

## Frontier's Display Glass Series

The display glass series of safes from Frontier enables you to display your most prized possessions without fear of theft. Its unbreakable, 1/2" polycarbonate plastic and 3/4" bolts make it every bit as secure as the armored safes.

These DGS-series safes are equipped with S&G combination locks with Spyproof® Rings. Interior lights come standard on these units. Display glass is available as an option on most Frontier safes.



Circle 305 on Rapid Reply

## Gardall's Square Tube In-Floor's

Gardall Safe Corporation has introduced a new line of Square Tube In-Floor Safes. With two models, the new inexpensive floor safes feature a "B" rated lift out head with all the standard compliments of relocker, hardplate, and a Group II lock. Both safes can be shipped via U.P.S. and are suitable for standard floor safe applications in commercial and residential markets. All Gardall Safes are made in America.

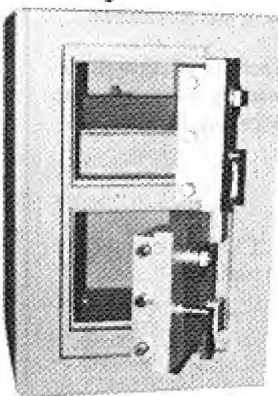


Circle 306 on Rapid Reply

## Knight TL-15 And TL-30 Depositories

Knight Safe manufactures a complete line of two door and three door depository safes with either TL-15 or TL-30 Underwriters Laboratory Labels. The two door units come in three basic sizes based on the capacity of the receiving area. These safes are available with either a heavy duty rotary hopper or a drop chute.

The three door "bowling alley" safes feature one additional section for bulk cash storage.



Circle 307 on Rapid Reply

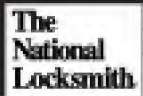
## Mac Queen's Safe Lock Picks

Specialized lockpicks for safes using high security keylocks in conjunction with or in place of a combination lock are available from Mac Queen. Developed from the basic 2 in 1 pick used in Europe for many years, these picks utilize a spacing device, and as needed, a pointer to plot false and real gates. When faced with a lockout on a high security safe due to lost or worn keys, these picks give the safe technician an alternative to drilling.

Models currently available for La Gard 2200, S&G 6800 Key Op, Mauer 12 lever, Kromer Novum, Tann 9 lever, Mauer 9 lever, Jackson 8 lever, and Power 7 lever Multistump.

Circle 308 on Rapid Reply





### Meilink's KC3624 Composite Safe

Meilink presents the first composite safe built in the United States to carry both U.L. burglary and fire rating. Today, all Meilink safes carry a lifetime after-fire replacement warranty and the composite safes carry a U.L. listed TL-30 burglary rating and U.L. class 350-1 hour fire and impact rating.

The composite safe is available in 9 different sizes featuring a standard combination lock and day key.



Circle 309 on Rapid Reply

### National Security's Magnum Safe

Magnum, one of the more popular models from National Security Safe, comes standard with triple-wall insulated construction. The Magnum incorporates all standard features, plus many options. The door has 17 locking bolts (6 on each side, 3 on top, 2 on bottom).

Options include gold plating on handle and lock dial, brass hinge caps, custom handle, stainless steel liner, and a brass safe lamp.

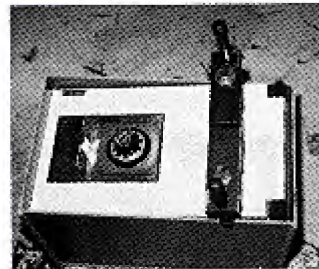


Circle 310 on Rapid Reply

### Jim Ripley's New Addition

Jim Ripley, president of Jim Ripley's Services Inc. introduces a new locksmith tool. The tool will be sold under the name of "Safe Monkey Wrench II™."

The new addition to the Safe Monkey Wrench™ will overcome lock malfunctions, lost combinations, set relockers, as well as burglar attempts without drilling hard plate or precision drilling on many square door floor safes. Some can be opened in as little as 15 minutes.



Circle 311 on Rapid Reply

### Overly's Class 5 Gov't. Approved

Overly Manufacturing is currently under contract with the GSA to manufacture and supply Class 5 vault doors under the current Federal Specification, AA-D-00600C for use on government projects. This door affords the following protection: 20 man-hours against surreptitious entry, 30 man-minutes against covert entry, 10 man-hours against forced entry, 20 man-hours against lock manipulation, and 20 man-hours against radiological attack. The major change from previous specifications is that the combination lock now conforms to Federal Specification FF-L-2740.

Circle 312 on Rapid Reply

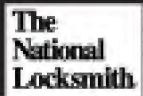
# SRI

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### Perma-Vault's Dual Drop Box

The dual compartment drop box is an affordable, safe and convenient depository for the interim storage of cash and checks available from Perma-Vault Security Products. The exclusive removable inner safe can be exchanged for easy transfer to a counting room or cash pick-up service.

There are two sizes available: Model PRO-1200-M is 6" x 12" x 11-1/2" and Model PRO 1900-M is 6" x 19-1/8" x 11-1/2"; which bolt within arms length of a cash register.



Circle 313 on Rapid Reply

### Safe n' Ready's Quick Draw Safe

The Quick Draw Safe offers a convenient way of storing a loaded firearm away from children while allowing split second access when needed. For added security, every unit comes with two mounting holes in the bottom for surface mounting. The unit is constructed of heavy gauge rolled steel and comes with a durable powder coat finish for scratch resistance. The use of the Simplex all mechanical combination lock gives the owner over 2,200 different combinations.

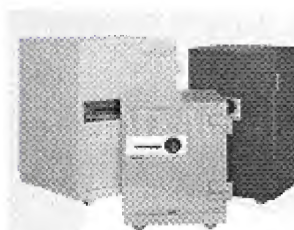


Circle 314 on Rapid Reply

### Schwab's Express Shipment Program

Now Schwab's most popular safes are available on an express shipment program. When your customer needs a safe in a hurry, these safes can ship within four days after receipt of the the order to dealers with approved credit.

The safe interior will still be customized to meet your customer's needs. All safes are still made in the U.S. and are UL classified for fire protectiveness.

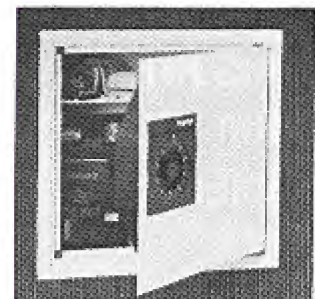


Circle 315 on Rapid Reply

### Sentry's Keep/Safe Safe Deposit Box

The Keep/Safe™ Wall Safe from Sentry Group, manufacturer of Sentry® Fire-Safe® products is a telescoping wall safe which allows full use of 4-6" stud wall depth.

The unit features a double-plate steel door with a 16 gauge steel cabinet, hard plate behind the lock, two live locking bolts which secure the door to the cabinet, and a concealed hinge, and 3-number combination lock recessed in the door. An adjustable shelf keeps valuables organized.



Circle 316 on Rapid Reply

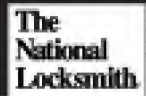


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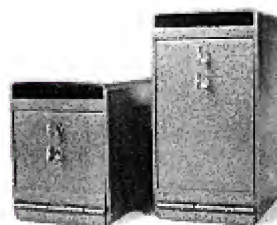
[Click here for more information](#)

### Wilson's New Reliance Line

Wilson Safe introduces their new line of Reliance steel safes: hopper depositories, undercounter, and B/C rated chests. The depository and B/C rated chests can be equipped with either a #4440 dual key lock, a group II combination, or electronic combination lock.

The undercounter units are standard with a #4440 dual key lock.

All have predrilled mounting holes, spring loaded relockers, and baffles protecting drop openings.



Circle 317 on Rapid Reply

### Woodward Makes The Lector Truck

Woodward Mfg. is almost 25 years old and is the originator of the stair climber, the Lector Truck. This is a positive/negative lift machine which means it's a total moving machine which can be a power tailgate, stair climber and power dock leveler.

Lector Truck is capable of moving up to 1500 pound loads on or off docks, trucks or up and down stairs with the push of a button. It is safe to operate because the operator is always above the load, and can lift 1000 pounds up a flight of stairs (10 steps) in about 2 minutes.



Circle 318 on Rapid Reply

### Amsec's Digital Keypad Lock

Consumer preference for electronic keypad locks has been growing for years. Now AMSEC offers an affordable and already proved reliable alternative. Their digital keypad lock now offers a time delay lock function.

Standard features of the KPL100 include quick entry and easy set with combinations from 4 to 8 digits that can be easily entered, providing over 100 million possible combinations.

Security features include: after four incorrect input attempts, the lock will not accept another combination for 15 minutes.

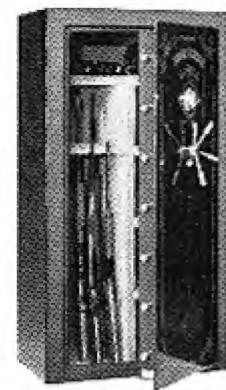


Circle 319 on Rapid Reply

### The Fort Knox Executive Series

The Executive Series safes are the "top of the line" from Fort Knox, offering security and reliability in a handsome package. The buyer can select from one of Fort Knox's designer finishes to create the perfect statement for their home or office.

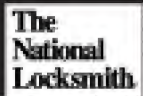
Features include a 3/8" thick steel door and patented 5 to 1 reduction, multi-gear drive rack and pinion locking mechanisms.



Circle 320 on Rapid Reply

*Continued on page 42*



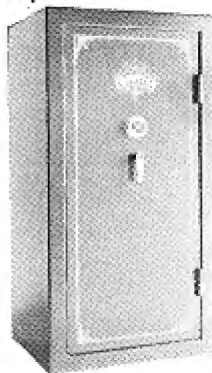


Continued from page 40

## Frontier Safe's SR-Series

This line of maximum security safes is Frontier's most popular model. Each SR-series safe is manufactured with 10-gauge steel walls, 1/4" plate reinforced, recessed doors, eight active 3/4" bolts and adjustable ball bearing hinges.

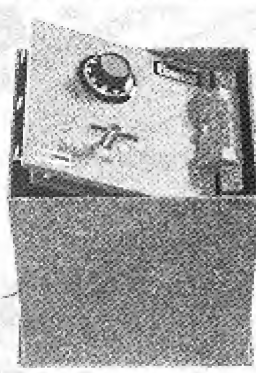
These safes are equipped with S&G combination locks and Spyproof® Rings. As with all our safes, SR-series door jambs are reinforced to thwart break-ins. Doors with spinner handles are available as an option.



Circle 321 on Rapid Reply

## Gardall Floor Safes

Gardall Safe Corporation is pleased to announce the introduction of a new line of Commercial Floor Safes. The safes offer a larger storage area and the following security features: Group 11 combination or electronic lock, 1/4" hard-plate surrounding the lock, independent relockers, 3 chrome plate 7/8" round locking bolts and a coil spring assist for the door. As an option you can also order these safes with a baffled slot or a "C" rated door.



Circle 322 on Rapid Reply

## Fire Tested Home Safe

Liberty Safe introduces the new fire tested and certified Quad-Wall™ security safe. These high security safes are available in sixteen different models from 8 cubic feet up to 48 feet. Tests conducted at 1250 degree F for a period of 30 minutes have shown that the inside temperature remained below 350 degrees F, substantially below the 420 degree F mark at which paper begins to char.

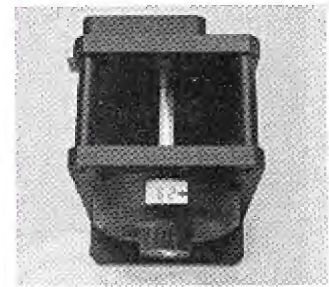


Circle 323 on Rapid Reply

## Mas-Hamilton's X0-7 Combination Lock

Premiered at the July ALOA show was Mas-Hamilton's X0-7. This lock retrofits a 6730. The new lock is completely computerized, featuring new technology which eliminates wheels and the possibility of manipulation. The X0-7 is electronic. However, no batteries or wiring is needed since the lock generates its own electricity as the wheel is spun.

Each lock may be used in single combination mode, senior/subordinate mode, or in dual combination mode.



Circle 324 on Rapid Reply

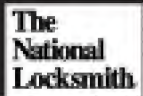
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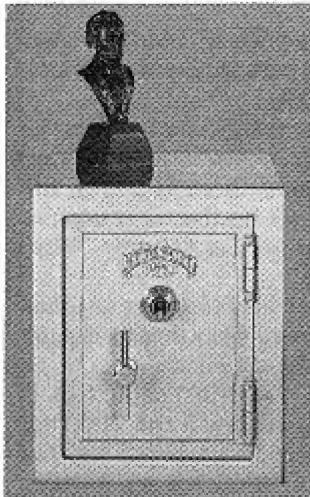
[www.laserkey.com](http://www.laserkey.com)





### National Security's Mini-Mag Jr.

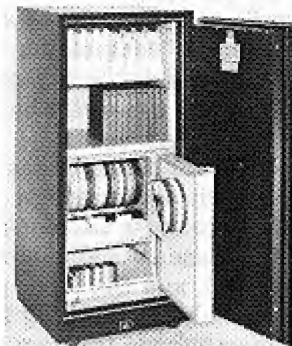
The Mini-Mag Jr. is National Security Safe Company's newest safe featuring the quality and innovation of the larger models. The door has six, 1" locking bolts, plate steel construction, attractive finish and adjustable velvet interior. Available options include, triple-wall thermal insulated construction, gold plating and brass hinge caps.



Circle 325 on Rapid Reply

### Schwab Program Eases Delivery

If you don't stock and sell safes because they are too difficult to deliver, you may want to reconsider and take advantage of Schwab's national inside delivery service. Designed to make life easier for dealers, you can now provide your customers with Schwab's quality safes without having to stock them or deliver them.



Circle 326 on Rapid Reply

### Wilson Safe's Electronic Option

Wilson Safe introduces new electronic locks on their small Diplomat fire safes. Previously, the units came standard with just key and four wheel combination locks.

The new electronic locks are ideal for the customers who want to be able to set their own combination, and have the ability to reset it at any time. The locks can be set on one to eight numbers. They have an internal alarm preventing more than three incorrect attempts, and a memory retaining combination in the case of a power failure due to dead batteries.

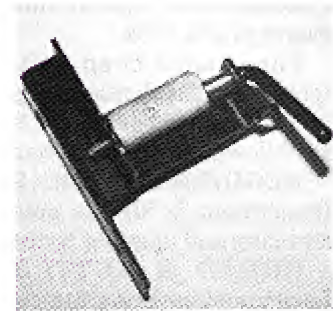


Circle 327 on Rapid Reply

### Woodward Mfg's. Wheel Brakes

The all new wheel brake system for the Lectro Truck from Woodward Mfg. has been specially designed. The cam action, spring-loaded brake assembly can be easily applied with your foot to lock the wheels so they cannot roll. This gives the added security you're looking for with those large and heavy safes as you travel up or down stairs.

You can quickly and easily install them on your Lectro Truck in about 15 minutes.



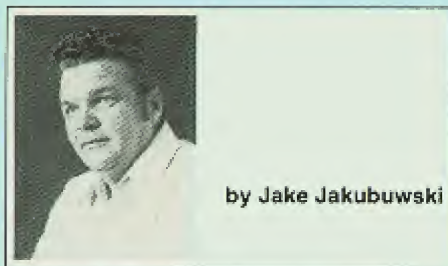
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by Jake Jakubowski

## Consorting With The Enemy

*"An inescapable fact is that somewhere, someone will be selling your merchandise cheaper than you can."*

**I**nvariably, a "woe-is-me" comment can be found in almost any trade publication regarding the fact that "they are selling it cheaper than I can buy it from my suppliers." The items range from nuts and bolts, to locks and locksets and damn near everything else in between. I find this is just as true in our industry as in any other. Sometimes, I think that "woe-is-me", is an inherent attitude with many people.

One of the inescapable facts of business life, is that someone, somewhere, can, and will, sell it cheaper than you. In some instances you will find they have sold it cheaper than you can buy the same merchandise. The good news is, there is something you can do about it!

**If, and when,** you find a home center, or hardware store selling the same merchandise cheaper than you can get it from your normal source, then buy it from *them*!

You say you just couldn't buy it from them and still make a profit. But, if they are selling it for less than you can get it from a supplier, you should be able to make an even better profit on it than you would have normally.

Actually, except in special cases, the home centers are simply selling cheaper than we are; not cheaper than we can buy from our suppliers. However, in that special instance when a home-center, or hardware store will put an item on sale that is normally below our cost ... then we *should* buy it from them. After all, it is to our advantage.

**I have found,** occasionally, that the local home-centers will offer Schlage, or Kwikset locksets on sale at a price my supplier cannot meet. When that happens, I do not hesitate to purchase what I think I might need, or as much as I can reasonably afford. I have, on a rare occasion, been able to pick up brand-name locksets at a

close-out price, that has allowed me to compete with the home-centers on a retail level! True, it does not happen often, but if we keep abreast of what they are offering, we can very possibly buy it from them, and make money on the deal to boot.

Another argument is that the home-centers and hardware stores are selling to our prospective customers. That is not necessarily true. There have been numerous studies done over the years that indicate people who buy an item to install themselves will not generally patronize a craftsman in that field. However, when John Q. Handyman fouls it up, and he often does, he is very likely to give you a call to get him out of trouble.

**Those customers that do call on us to sell and install locks for them,** are interested only in getting a problem solved as quickly and professionally as possible. Price may be a factor, but not to the extent that they are going to run down to the home-center and get a quote on a lockset. For those customers to whom price *is* a determining factor, you should have an economy line available.

In this case, "economy" would just about have to translate to "off-shore." Oh, oh. Another, "You've got to be kidding me?" comment, right? Not in the least. If someone calls us for a lockset, and we determine that they want "cheap," we sell them cheap, and (here comes another zinger, boys & girls) we guarantee it! Why not? Try this on for size...

We sell a customer a deadbolt for \$16. We paid anywhere from \$6 to \$8 for it. We charge our standard service call and our standard fee for installing the deadbolt. Even though it is less than a perfect off-shore copy of an American-made lock, we guarantee the lock for one year, and our labor for 90 days. If the lock fails within 90

days, it is replaced free (we do this with maybe 3 out of 100). If the lock fails any time after 90 days, we will repair, or replace it, but we charge our normal service call for doing so. Figure it out... it can make you money too.

**Speaking of "off-shore" locks,** and home-centers, I have on occasion found import entry sets with a KW-1 keyway for as little as \$3.99 ea. Did I buy it from "them?" You can bet the farm I did! I then sold those locks to the customers who were looking for "cheap" for \$12 to \$14. Or how about Schlage, B-100 series, deadbolt latches with 2-3/8", and 2-3/4" backsets for \$3.00 apiece? Yeah, I bought them too.

What I'm trying to say is that we have to stop looking at the home centers and hardware stores as the enemy. The automobile repair trade adjusted, (and is alive and well) to the advent of the "chain" discount auto parts stores that sell to anyone. In fact many of those mechanics, who at one time felt threatened by the chain discount operations now buy from those very stores. I have seen building contractors buying from the local home center. Look upon those stores as another source of making money...not as someplace to avoid, and then complain about.

**Given today's economic climate,** we have to explore every possible avenue of not only conserving and saving ourselves money; but we *absolutely must* find ways to offer our customers similar types of savings...even if it means consorting with the "enemy" on a regular basis. Even if, at times, it means patronizing a store that has an "in-house" locksmith, that we might normally perceive to be "competition!"

Recently, I read a letter-to-the-editor in *The National Locksmith* where the writer made the statement that he would never consider a





hardware store a competitor, especially one that had a locksmith that had been "trained" (emphasis is mine) for a whole six hours. I agree. The only competition any of us has to fear is the competition that we allow ourselves to feel threatened by. I believe that includes the home-centers and hardware stores.

If we turn our backs on the possible opportunities that the "enemy" offers us to make money at "their" expense, then we have no one to blame but ourselves. We can turn a "woe-is-me" outlook into a very positive cash flow, just by looking for the opportunities available to us by consorting with the enemy.

Another very positive aspect to all of this is that by going into the hardware stores and home-centers (especially the national chains) you can garner some great ideas for merchandising your own shop, if you own one.

Also, by talking to the salespeople or just "shopping" you can learn a great deal about the merchandise that is being offered. If you know what "the competition" is selling, and for how much; and how it compares to the merchandise that you sell, you

can increase your sales potential. The reason you will increase your potential is because you have taken a little time to become informed.

Now, for some specifics:

A national home center near where I live regularly offers Kwikset 400 series entry locks in polished brass for between \$19 and \$21. My catalog lists that same lockset with a suggested retail price of \$29. My cost is right at \$14.50. With my cost being what it is, I know that I cannot realistically compete with the home-centers' \$19 price tag. What I can do is let the customer know that I can install, service and *guarantee* the same lockset.

If that customer then indicates that *price* is their primary consideration, then I let them know that I also sell a "comparable" lockset (that I will guarantee for 1 year) for \$14.50 retail, which is less than the home center price and allows me to make a decent profit on the sale. In addition, I get my normal installation fee and service call. The important thing is to qualify the customer to find out what price lockset they were interested in and using that information to sell them on your products and services.

Remember, there is money to be made by consorting with the enemy as long as you do it with an eye out for the opportunities that the "enemy" might open up for you. Those opportunities are there, all you need to do is look for them. §



ASP Covers  
the World of  
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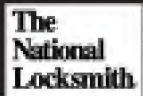
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by Dale Libby

## Mosler's Teller Safe

*"The safe was in a restaurant, so of course, we had an excellent meal as we opened the safe."*

**M**any times what the public calls a safe, in reality is not a safe. We, as professionals, know the difference, but it is our sacred duty to inform the public. We will tell them the difference between a safe and money chest. We will expand on the fire ratings of both UL and JIS and explain what is needed. If the customer requires burglary protection, we can advise and inform them of the differences between lettered protective barriers. I am sure that you get the picture. Right?

Well, a rather posh restaurant called upon the services of two well known safemen, namely Bob Sieveking and myself, to open a "safe"

at their establishment. Since the restaurant was on one of the tallest buildings in Rockford which was over a large banking establishment, we had an excellent meal with an excellent view. We also differed in opinion as to the quickest and easiest way to open their "safe."

In reality their safe was a Mosler Teller Container. To them it was a safe. They acquired it from the bank and were going to keep cash register trays and change in it. Rather than giving the office personnel a lecture about containers vs. safes, we agreed upon a price and went to work.

There are several brands of teller safes. Two of the most popular are

Mosler and Diebold. They are the same is basic configuration. Most consist of two locking drawers above a plate door with a piano hinge on one side. These containers can have either right or left hand doors.

The operative word here is container. The safe is a plate box with sides that can vary in thickness between 1/4" to 3/8" thick. These plates are welded together into a nice clean package. Many of these safes are then slid into the large container with the two locking drawers.

Most of these two major safes have a piano hinge and a group II safe combination lock. Others use non-

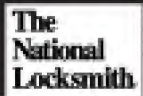
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Continued from page 58

removable hinges. The other features they have in common is a locking handle that operates two vertical rods that secure the door of the safe container at the top and bottom. Sometimes the cam that locks the rods will also secure the door at the opening side.

All three cam cylinders use the same key. Both drawers and the opening handle are distinctive for each brand of safe container. Bob opted for a frontal attack while I favored a rear attack. We came

together and developed a new devastating way to quickly open the unit.

Serendipity plays a part in all safe openings. The first thing we did was to remove the drawer directly above the top of the safe container. Two recessed clips were employed to release the drawer from the drawer slider.

Once the drawer was out, all that was visible was a flat steel plate in the bottom of the opening above the safe itself. This plate was secured by four small phillips screws, two to a side.



Once these screws were removed, the plate was raised up and pulled out exposing the thick steel top plate of the safe container.

The purpose of this plate was to secure the chest into the container. Once this floor plate removed the inner safe slid easily out of its sheet metal shell. What was even better was that there were 4 holes in the top and 4 holes in the bottom of the unit. These holes were located about 1 inch out from each top and bottom corner.

It was easy to put in a scope and see the back of the Mosler 302-402 lock. If the lock was a key change lock, we could have looked easily through one of the existing holes and dialed the unit open. Unfortunately this was a hand change lock.

We drilled a small hole in the back of container and used a long screwdriver to take the back of the lock off. We then inserted a straight probe and released the relock trigger in the lock itself. Turning the dial to the right moved the bolt back and the container opened.

Bob sealed the hole while I changed the combination. After trying the combination several times, we reinstalled the safe container into the larger shell. Replacing the shelf secured the safe container as a total unit.

Total time for the opening, repair, and writing out the bill was 30 minutes. The point that I would like to stress is that there are many ways to open any safe. Some are easy, and others are not. Concepts are

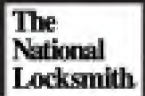
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by Carl Cloud

## Opening A Lord Safe

*"This safe opening offered a real challenge, and a sharing of techniques with fellow safemen."*

When the occasion arose to obtain a locked high security safe, Bob Lawrence, owner of Lloyd-Brummett Lock & Safe in Chula Vista California, jumped at the opportunity. Bob has been an instructor for many years in safe and vault educational programs for the California Locksmith Association and more recently, an instructor for the A.L.O.A instructor training program.

The safe opening not only offered a challenge to his safe crew, but allowed a sharing of the opening techniques with the fellow craftsmen from the San Diego Area. Bob's elite safe tech, Brent Read, an instructor for many safe related classes, offered to make

the safe opening presentation.

The object of the opening is an Australian produced Lord TRTL 30 safe, model 903. Distribution of the Lord safe in the United States only lasted about four years. At this time, the company has deep financial problems, is virtually closed down and facing bankruptcy. James Miller, the President of Maximum Security in San Clemente, California was the original distributor for U.S. sales. Although the safes are no longer being imported, parts are still available through the Maximum Security Co.

Because of a short product exposure and low sales volume, little

documentation has been published about the Lord Safes. The external dimensions; of this safe are, 43"H x 29-1/2"W x 31-1/2" deep. Two Sargent & Greenleaf 6500 series vault combination locks, working independently (both locks must be opened) provides the locking security. Note: the bottom lock was open and the dial had been taped in place. (See photograph 1.)

A sheet of glass covers the entire combination lock area. Each of the three horizontal locking bars are equipped with a relocker. An attack through the door, causing the glass to shatter, would activate the three

*Continued on page 64*



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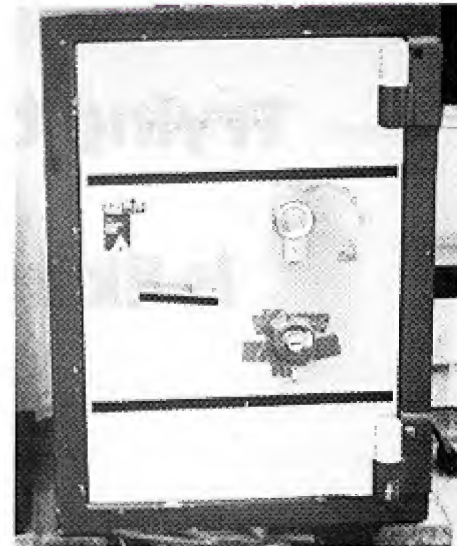
Continued from page 62

relockers.

The rating of this safe was not fully confirmed until after the door was opened. An identification number stamped in the upper right corner of the inner door plate, designated the safe as a TRTL 30. From the outside appearance the safe could have been a TRTL, 30 X ~ mode~ with all sides protected. In such case, rather than seven active locking bolts, ten would have been employed. Also, the make up of the barrier material in the wall would have been of a stronger composition.

The other unknown factor was the model of the S&G vault lock installed within the safe door. The 6530 series of the vault lock has a direct drive function. That is, the dial spindle enters the center of the lock case as any other standard lock.

The 6535 series is an indirect drive. Instead of the dial spindle threading into a drive cam, it attaches to a small gear located outside of the lock case. This gear drives an idler gear, which drives a gear connected to the wheel pack. Movement of the dial is transmitted through this three-gear train to turn the wheels and run the



1. The safe to be opened, a Lord TRTL30. The bottom lock was unlocked and the dial taped in the open position.

combination of the lock. It should be noted, literature on the Lord TRTL 30 x 6 safe states that the S&G Group 1, manipulation proof locks are used. The S&G MP vault lock is an indirect drive.

Depending upon the model of lock case, the indirect dial spindle may drive the gear train from above, below or from the end of the lock case.

From outside the safe, the only reference point we have for the location of the safe lock is the dial. According to the model of the drive, the lock case may be directly behind the dial, below, above it or offset to the left of the dial.

All information compiled about the Lord Safe indicated that the lock was mounted right hand. After considering the options, it was decided to penetrate the safe body from the hinge side. This would allow a scope viewing hole to be drilled into the end of the lock case. The distance from the door face to a center line of the lock case was figured from the scale drawing supplied by the Ed Willis Template of the Lord safe door.

Normally, the turning of the dial will emit the movements of the gear train. There will be a 'feel' of the gears driving against one another. This dial was a little stiff but the evidence of an indirect drive were apparent. After studying the positions of the various drive modes, it was decided to drill for the lower right corner of the lock case. The measurement was taken from an end drive position on the lock case as shown in the Ed Willis template. This would position the case



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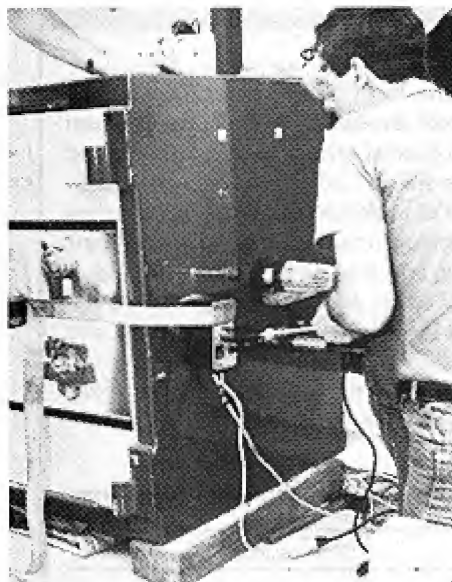


off-center to the left of the dial.

This drill selection became a solution to solve three of the four possible drive positions for scoping the lock case. If the lock should happen to be a direct drive, with the case located behind the dial as in a standard lock, the entry hole is exactly where we have planned to enter the side wall of the lock case. If the dial is above the case, the entry would penetrate the case at the upper corner. An end drive mode would only move the lock case to the left and our drill hole would still enter at the lower right corner. In the event of an 'air hole' we would know that the lock case is above the dial location. But, there were no records of the Lord Safes being equipped with the lower indirect drive.

Using a square, careful measurements are taken to mark the exact location for the hole of the side drilling. The distance from the door face to the center line of the lock case was determined to be six and one half inches. A punch mark indicated the drill location down eighteen and one sixteenth inches from the top of the safe. (This proved to be about a quarter inch too much)

To insure a perfectly horizontal hole through the four and one half inches of safe body, a magnetic base drill rig was affixed and strapped to the safe. (See photograph 2.) The



2. A magnetic drilling rig insured a true and straight hole through the side wall of the safe.

composite materials in this tool and torch resistant safe includes a matrix of aluminum impregnated with

'aloxite nuggets'. The aluminum resists the torch attack by absorbing and dispersing the heat. The nuggets are very hard and can cause havoc to carbide drill bits.

A quarter inch 'Strongarm' drill bit fought its way through about three inches of the wall before being spent. A second bit chewed through the remaining portion and was still sharp enough to exit the inner steel wall. A high speed bit was exchange in the drill chuck and penetration was made through the thin door frame in just moments.

A look into the hole showed the

location to be just a fraction too low. The hole was aimed at the lower right corner of the lock case, but was just low enough to prevent a drill bit to bite into the curved corner of the case. The view also provided the proof of the lock being an indirect drive, mounted on the end of the case.

It was decided to enlarge the hole through the safe body. This would enable a smaller bit to be angled upward slightly and penetrate higher up the lock case wall. Lee Swearingen fired up his 'Hilti' and plugged in a three-eighths inch carbide bit. Before you could say, "A Hilti hammer drill



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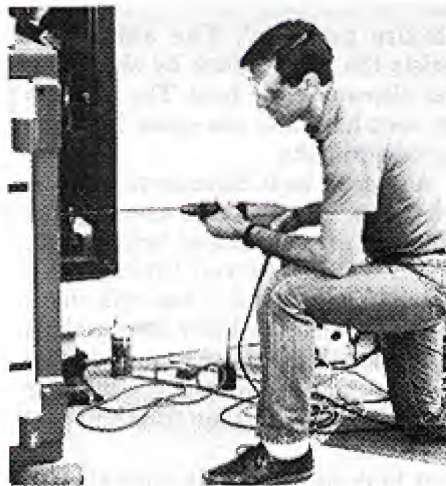


can do it!", the hole was opened all the way to the lock case.

The distance from the outside of the safe body to the wall of the lock case was eleven and seven-eighths inches. A twelve inch drill rod is just too short! Would you believe, none of the safe techs attending this opening had a quarter inch drill bit longer than foot? "Necessity being the mother of inventions," one of the people had a thirty inch alarm installers drill bit. The limber rod was chucked up and Brent angled the bit upward into the hole. About a minute later, the bit broke through the lock case wall. (See photograph 3.)

Lee, now called "Mr. Tool Man" because of all the specialized tools he showed up with, inserted his "Fibertron" scope into the hole. What a beautiful view! The scope entered at the bottom of the lock case and looked straight up at the wheel pack. The wide angle of the "Fibertron" with its fiber optics light source showed a perfect view of all four wheels.

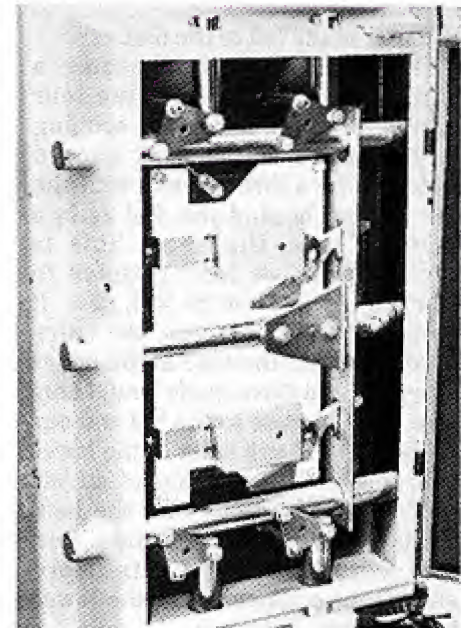
The reading of the wheel gates and the transfer to the physical drop of the lock, ninety-five, only took two dialing



3. Brent uses an alarm installers drill bit to reach the lock case wall. attempts to open the lock.

Photograph four shows the inside of the door with the dual combination locks. The hub for the end drive is hidden under the horizontal flat bar extending from the cases. These bars are the triggers for the relockers if the glass is broken. Note the drilled hole in the left side of the door frame just above the middle horizontal locking bolt.

Photograph five shows the scope passing through the door frame, the



4. Inside view of the door showing the dual locks and bolt works. Notice the drill hole through the door frame just above the middle horizontal locking bolt.

wall of the case and resting at the bottom of the wheel pack.

The total time of the opening was one hour and forty-three minutes.

*Continued on page 99*

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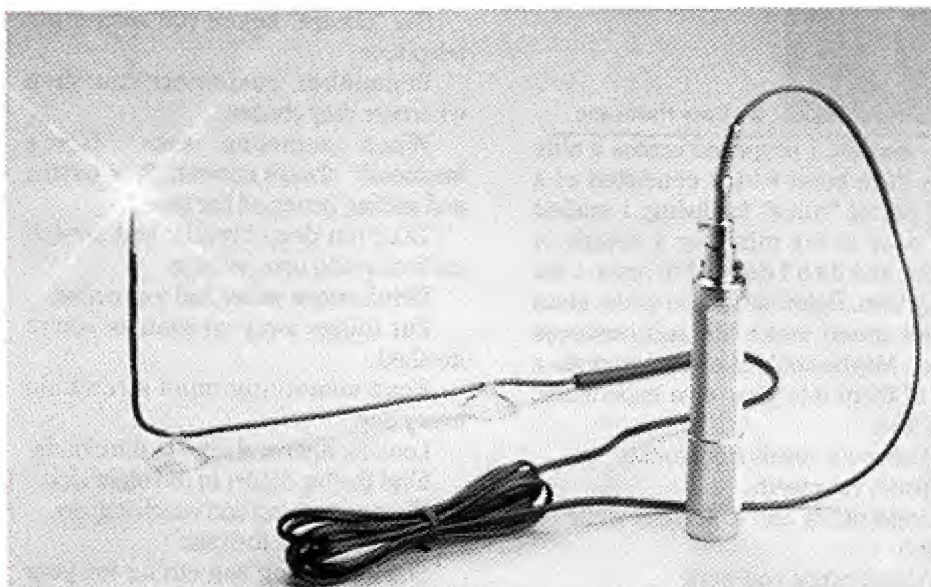
## MDS Shines Bright!

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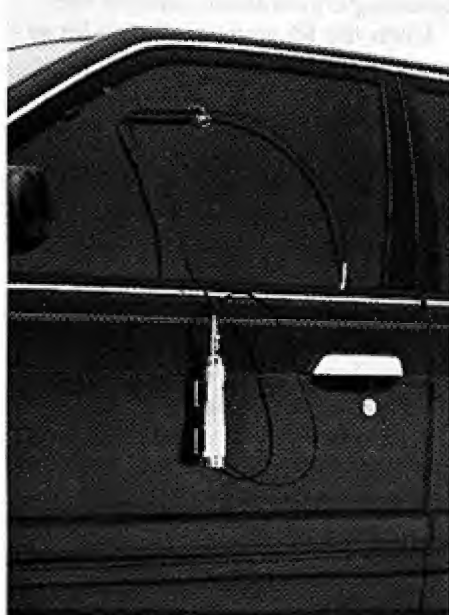
**M**DS Incorporated has introduced a new Super Bright Flex Cord Lite™ in three models. All three designs are available with a 10" or 17" totally bendable coaxial cable. The Flex Cord Lite™ adapts to all MDS Focuscope™, Magna-Scope™, and Welch-Allyn® ("Zipf" Scope) power handles. All models carry a lifetime warranty.

The standard model uses a 3-volt bulb and has a 4 foot power cord. A 4.5 volt version is available with super-bright Krypton bulb. Since 4.5 volts are needed, an extension sleeve for the MDS power handle is available. This allows three, "C" batteries to be used together without the add-on purchase of a bulky belt pack!

In addition, a specialty 12 volt model is available. It is ideal for automotive use



MDS's Super Bright Flex Cord Lite™



**The Flex Cord Lite™ used on a car.** and comes with two alligator style clips at the end of a 10 foot power cord. The clips attach directly to the car's battery or other 12 volt power source. The lamp is recessed for added durability.

The new Flex Cord Lite™ can be ordered as an accessory for existing



**The Magna-Scope kit.**

power handles, or it can be purchased as complete unit with a power handle and optional extension sleeve for Krypton conversion.

A Magna-Pak™ rechargeable battery is available (4.8 Krypton) to extend the life of your units battery. The

accessories disconnect quickly for direct mounting to the lightweight handle. A 12 volt version is also available. §

For more information contact: MDS, Inc., P.O. Box 1441, Brandon, FL 33509, (813) 653-1180.



# The Lighter Side

Ideas To Live By



by Sara Probasco

**R**ecently, I happened across a nifty little book which consisted of a long list of "rules" for living. I mulled this over in my mind for a couple of weeks, and then I decided to make a list of my own. Below are some of the ideas I have found make life and business better. Maybe you'd like to incorporate a few of them into your own experience. Feel free!

Wash your hands frequently.

Brush your teeth.

Dress neatly and look clean while on the job.

Whistle while you work.

Greet your fellow workers cheerfully each day.

Buy ad space in at least one local school publication, when they come around asking.

Select one local charitable organization to support with your time and your money.

Open one car a month for free.

Do something extra for at least one customer a day.

Through away junk. It doesn't improve with age.

Once in a while, when you get a haircut, get a manicure, too.

Have coffee at a "local hangout" cafe one morning a week.

Send flowers to someone you love, and come up with a reason later.

Clip and mail local news articles about customers and enclose appropriate notes of congratulations, sympathy, etc..

Say "please" and "thank you" more. Say "don't" and "can't" less.

Do something nice and totally unexpected for someone you scarcely know (for example, drop a coin in the expired meter behind yours, or trade places in line with an elderly person at

the end).

Sing along with the radio when driving between jobs.

Say "cheese" before you answer the telephone.

Remember, customers can shop wherever they choose.

When someone asks "How's business?" always answer, "It's terrific and getting better, all the time."

Take ten deep breaths and stretch each morning upon arising.

Drink more water and less coffee.

Put things away as soon as you're finished.

Read something mind-stretching every day.

Look for animal shapes in the clouds.

Find the big dipper in the night sky.

Plant something and watch it grow.

Take a walk in the rain.

Start recycling something for your own use.

Listen when a child wants to tell you something.

Charge what you're worth.

Give others the same option.

Help someone less fortunate, anonymously.

Save 10% of your earnings every day.

Eat 25% less. Smile 25% more.

Start taking a 15 minute brisk walk every day. Gradually increase it to 30 minutes.

Always take the stairs.

Master something new.

Memorize something every week.

Spend one evening a week with friends.

Write a letter to your congressman.

Send a card to a friend.

Organize one drawer or one closet and keep it that way.

Teach a youngster something you learned that has benefitted you in life.

Hug your spouse.

Spend at least one evening a week at home with the television off.

Every day, do something you don't want to do, and do it well.

Join a club or social group for fun.

Smile at unhappy-looking people.

Read at least part of the Wall Street Journal.

Call an old school chum you haven't heard from in years.

Call your mother.

Don't talk with food in your mouth.

Always stop eating before you're full.

Develop a hobby.

Read a best seller.

Keep a diary.

Watch the sun rise at least once a year.

Take a cake to your local law enforcement officers and dispatcher.

Never say "I can't do that," without adding, "yet."

Take a complete vacation from your work every year.

Wear clean underwear (in case you're in a wreck).

Don't work overtime (except for emergency calls).

Pinch yourself each time you say something critical about someone else.

Latch the lid on your pinning kit as soon as you're through using it.

Remember that the customer is always right, even when they're not.

Praise others freely.

Use failures as stepping stones to success. Encourage this in others.

Go the second mile in business and personal relationships.

Never gossip.

Practice your religion in all things.

Learn how to carve a turkey properly.

Take a nap on Sunday afternoon.

Keep the spice in your life, but cut back on the salt.

Re-elect nobody!

Get on friendly terms with your competition.

Decide on something that is important to you, and go for it.

Share your knowledge with others.

Keep something beautiful within sight at all times.

Maintain a childlike wonder in your heart.

Greet all of life with a sense of challenge.

Seize the day with gladness! §



## Sentry Safe

Sentry Group, a leading manufacturer of fire-rated safes, chests and safe products, now offers steel safes with a Cor-Key lock as a unique sales opportunity for locksmiths who are looking for a product with special appeal to businesses and service organizations.

Sentry Fire-Safes with the Cor-Key lock offer simple key control and lock recoding with four billion possible combinations. Activated by a magnetically encoded plastic card that's smaller than a credit card, the lock can be recoded in seconds by a locksmith using a special coding gun and kit. A replacement key can be then be provided, eliminating any risk



to the safe's owner.

"Sentry safes with the Cor-Key lock are not distributed to discount stores and other retail outlets," said Todd Westman, sales and technical representative for Sentry Group. "Locksmiths will be able to market this exceptional product to colleges, nursing homes, hospitals, businesses— anyone who requires fire safety with the additional safety of the Cor-Key lock. It is ideal for situations in which one person is responsible for many safes, or in which safes have multiple users."

Because it requires no power, the Cor-Key lock is more reliable than many electrical locks that can be disengaged by cutting wires, or that can fail when batteries run low. The lock's construction eliminates openings or moving parts that can be dismantled.

Sentry Group includes the Cor-Key lock on safe models 4000, 4110, 4130,

*Continued on page 99*

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# Beginner's Corner

Kwikset Service



by Eugene Gentry

When I saw Quickpull cylinder removal tool for Kwikset and Dexter advertised in a catalog, I thought it was a great idea. The reason this tool caught my eye is that you can remove a Kwikset or Dexter cylinder without taking the lockset off the door. I purchased one and read the instructions, but before I had a chance to try it out, a call came for a key change on three Kwiksets. I put the Quickpull in my tool box and took it to the job. It was used on all three cylinders and worked with ease and speed.

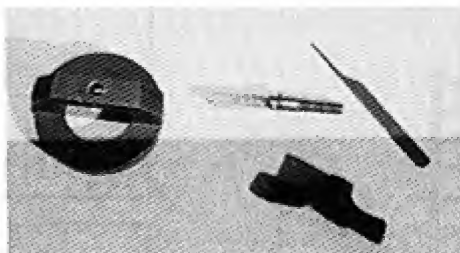
Let me tell you about this tool, and you can decide for yourself if you like it.

The Quickpull comes in three parts, a heavy metal base, a threaded shaft with a blank attached and a turn handle. (See photograph 1.) Instructions for use are included in the package.

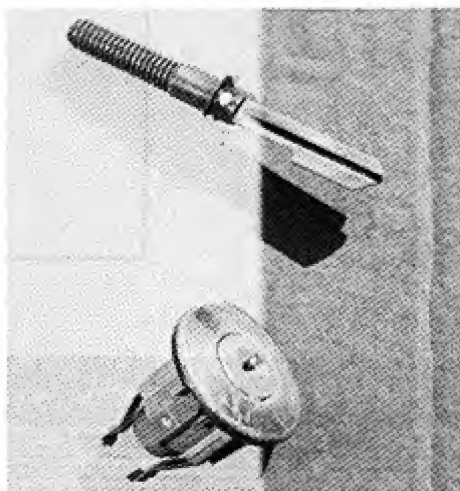
The blank key has a straight cut, and is designed to hook behind the first pin. (See photograph 2.) To use, the blank is inserted in the keyway of a Kwikset cylinder until it is hooked, (see photograph 3) then the handle is turned until the cylinder is forced out of the lockset. It only takes a couple of turns before cylinder is released. (See photograph 4.).

Included with the Quickpull, is a tapered, pin lifting shim. After the cylinder is out, the lifting shim is pushed in at the top of the blank, lifting the first pin, therefore releasing the keyblank. (See photograph 5.)

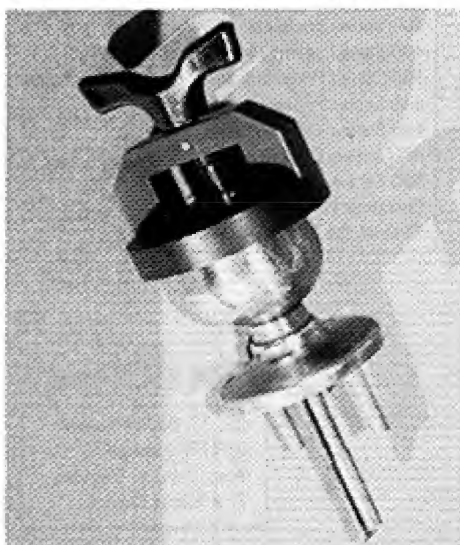
At the rekeying job, I was about to install a new front door lockset, but saw that the keyway would be upside down. I used the Quickpull to take out the cylinder, and replace it properly. The Quickpull does not damage the lockset. On this new lockset it did not leave a mark or scratch. On the other two



1. The Quickpull, disassembled.



2. The keyblank has a straight cut.



3. Keyblank inserted in keyway.

older Kwikset locksets, the cylinders came right out. It saved me a lot of time by not having to take the locksets off the door.

I did have some trouble getting the



4. Turn handle until cylinder pops out.



5. Insert shim into keyway to lift and release blank.

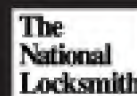
blank out of the cylinder. When the shim was pushed in the keyblank did not release. After some experimenting, I found you have to lift the shim slightly to lift the pin enough to clear.

When I got home, I tested the Quickpull on a number of old Kwiksets. Each cylinder came out easily. The instructions state that there is a possibility that the retaining spring on the cylinder could break off. On the locks I tested, the cylinders came out intact with no breakage, but because of the warning, I am going to carry some extra retaining springs, just in case.

It appears to me that if a locksmith keys some new or used Kwikset cylinders ahead of time, that he could rekey the locks on a house very quickly just pop the old cylinder out and the new one in.

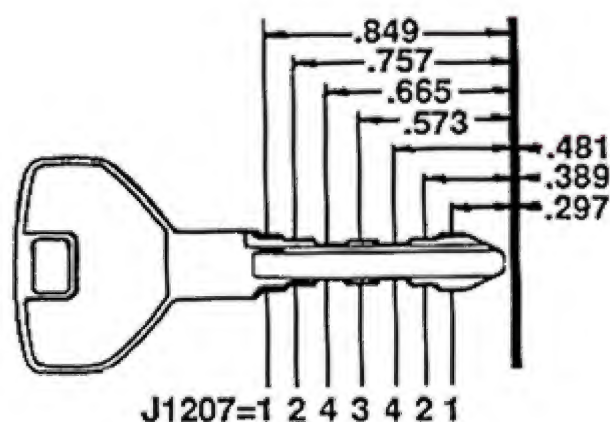
The Quickpull is designed to also work on the Dexter lock. On this lock, however, the retaining ring will be broken and a new one will have to be put on. §





# 1993 Chrysler Codes

J1501-3580



## DEPTHS

1. 0.338
2. 0.313
3. 0.288
4. 0.263

## KEYWAYS



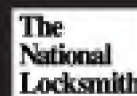
Original 595895  
Silca CY19  
Curtis Y155  
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## J0001-3580 CHRYSLER

### Keyblanks:

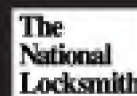
Original 595895  
Silca CY19  
Curtis Y155

### Code Machines:

1200 CM No. X60

1501	1551	1601	1651	1701
01 1333424	51 1243224	01 1343123	51 2442121	01 1243311
02 3133421	52 2432244	02 2444312	52 2133442	02 2343421
03 2443122	53 4333421	03 4213233	53 2443243	03 1213242
04 4344221	54 3442321	04 3423342	54 2322443	04 2433132
05 4213421	55 2443112	05 2343243	55 4212243	05 2132332
06 1332213	56 1242113	06 2321331	56 3442313	06 3423424
07 2423133	57 4334211	07 2124431	57 2342324	07 4231312
08 4433234	58 2234231	08 3112443	58 2344232	08 1213213
09 2442432	59 4224231	09 1234443	59 2344223	09 3324342
10 4311312	60 2224334	10 2133121	60 4221243	10 4213423
11 1224244	61 3121124	11 1132244	61 4212112	11 2211343
12 2443334	62 4324243	12 2234324	62 2211342	12 3113134
13 1242442	63 3131243	13 4243232	63 4334231	13 2242433
14 3113221	64 1322231	14 3113322	64 1223121	14 4242331
15 2443431	65 2442332	15 1343242	65 3213324	15 3343224
16 2421344	66 1213431	16 3442432	66 2232131	16 2212343
17 4423421	67 3421244	17 2224431	67 1221243	17 3443321
18 2312434	68 3134422	18 1213421	68 4244213	18 4324423
19 4343312	69 2421132	19 2321313	69 4342113	19 3222443
20 4243321	70 3443421	20 2421112	70 1342133	20 1234234
21 1134432	71 1134312	21 4434311	71 4311242	21 1222343
22 4331311	72 3442223	22 1134423	72 4223231	22 4211321
23 2124421	73 3421131	23 3112342	73 2213424	23 3212431
24 3432442	74 2311322	24 2243131	74 4321311	24 2312112
25 2113124	75 3134443	25 3433224	75 3131122	25 1321323
26 1233134	76 1334324	26 2233244	76 4213331	26 4321342
27 4232243	77 2442233	27 2134434	77 2242134	27 1132243
28 2133124	78 1342323	28 4423332	78 2434331	28 4231212
29 4443313	79 2112423	29 1222313	79 4234342	29 2131221
30 2223134	80 3132121	30 1313324	80 3421211	30 2334424
31 1234423	81 3231132	31 2324432	81 2113243	31 2132423
32 2113231	82 1323224	32 2212434	82 3224324	32 2231324
33 2244421	83 3344213	33 4233424	83 2444313	33 4231234
34 2332434	84 4323421	34 4232332	84 4222331	34 4342221
35 3132132	85 2421342	35 4342332	85 2312113	35 2313213
36 1323423	86 4233213	36 4324224	86 3112132	36 1312443
37 3243443	87 3421342	37 4212213	87 4312123	37 2233134
38 3134424	88 2243244	38 2134424	88 2132324	38 1243244
39 4331321	89 3313124	39 2342121	89 1232312	39 2231312
40 1244224	90 4443131	40 3244321	90 2312133	40 1344321
41 1231231	91 4213224	41 4421121	91 4312442	41 2243442
42 3431232	92 4312133	42 4233121	92 3113443	42 1134434
43 3113132	93 3431234	43 4423323	93 2333244	43 1312442
44 2433242	94 3212132	44 4321334	94 2323113	44 1233244
45 2432434	95 3342124	45 2232433	95 1331344	45 1342242
46 2133421	96 1332234	46 3433244	96 4213442	46 2423321
47 2342133	97 3113234	47 2123424	97 4234431	47 1233443
48 3323224	98 3132221	48 1311343	98 4233431	48 3442334
49 3242132	99 2123132	49 3133424	99 1244342	49 4413432
50 2312342	00 1133423	50 3124434	00 2234213	50 3443432





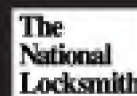
## J0001-3580 CHRYSLER

Keyblanks:  
Original 595895  
Silca CY19  
Curtis Y155

Code Machines:  
1200 CM No. X60

1751	1801	1851	1901	1951
51 3421331	01 4431312	51 3222134	01 1332322	51 4322424
52 2432243	02 2334231	52 3424311	02 2334324	52 4211313
53 4443213	03 1122313	53 4223243	03 4231242	53 1113224
54 1324221	04 3123244	54 4321234	04 1223244	54 2131124
55 3242234	05 1344213	55 1234342	05 3424224	55 3443324
56 2311313	06 3423224	56 1213232	06 4244332	56 3421224
57 3443243	07 1324434	57 1122423	07 2313421	57 4313442
58 2342131	08 2224433	58 1331243	08 2324433	58 2231321
59 1331124	09 1243343	59 4313124	09 4343311	59 2132442
60 4222133	10 2213132	60 4231231	10 2331242	60 3223131
61 2323442	11 1312231	61 2322433	11 2213123	61 4223432
62 4244322	12 4243343	62 3212134	12 2443213	62 1232433
63 4421234	13 1312324	63 3444223	13 4324432	63 1312243
64 4213134	14 1334312	64 2431244	14 1112424	64 3421312
65 3234442	15 3132432	65 3432242	15 4422432	65 3242312
66 4342134	16 2434422	66 3432231	16 2324334	66 3234213
67 4224332	17 1213342	67 2443422	17 4432243	67 2232344
68 4342242	18 3342342	68 2234243	18 4323443	68 4331134
69 3322243	19 3133224	69 2342124	19 4332134	69 2312442
70 3324243	20 4324331	70 4332312	20 1322124	70 4423133
71 4313443	21 2423432	71 4312331	21 2343324	71 4332421
72 3213424	22 2131322	72 2342421	22 1133421	72 4423322
73 1342231	23 1244231	73 3132112	23 3433422	73 3131234
74 2244312	24 1334212	74 2421324	24 3221323	74 2324324
75 2321134	25 3432431	75 4213343	25 3211343	75 3424211
76 3324324	26 3324221	76 2121323	26 3443213	76 2121344
77 2134242	27 2132321	77 3112134	27 2434433	77 4422112
78 2312423	28 1211323	78 4343211	28 2134244	78 1332131
79 2343224	29 2424433	79 1332443	29 3224443	79 1231332
80 2342311	30 1221312	80 4334213	30 4323224	80 4222343
81 2321124	31 4233342	81 1243443	31 3112133	81 1243432
82 3223231	32 4312212	82 4223213	32 2421131	82 3133122
83 3244311	33 4222311	83 1344343	33 2133312	83 2113431
84 2112421	34 3444322	84 4421313	34 1312312	84 2313242
85 1232431	35 1311332	85 3244223	35 1221331	85 1243342
86 4223433	36 3424432	86 3234224	36 1224344	86 3244423
87 2113244	37 1124313	87 1343211	37 4434322	87 3322421
88 1113342	38 1221244	88 1112342	38 4431243	88 1132212
89 3421112	39 3443232	89 3124231	39 2133324	89 2444221
90 1322423	40 2442431	90 2113232	40 1313442	90 3223243
91 2134423	41 1323443	91 3211324	41 2122431	91 1342321
92 1243232	42 4431134	92 4324221	42 4222433	92 1343224
93 4421213	43 4342322	93 1343344	43 3232442	93 1231213
94 1134244	44 4434312	94 1331321	44 3322431	94 4234432
95 1222431	45 1322243	95 3223434	45 4243133	95 4223421
96 4331231	46 2133123	96 1342124	46 1243121	96 1334442
97 1244221	47 3444211	97 2132433	47 3312443	97 4442311
98 4243312	48 1221334	98 1331324	48 2331234	98 1132432
99 4434223	49 1231244	99 1243133	49 1344423	99 3132213
00 2111243	50 3443221	00 4323324	50 3331242	00 2211323





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## J0001-3580 CHRYSLER

### Keyblanks:

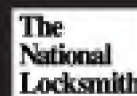
Original 595895  
Silca CY19  
Curtis Y155

### Code Machines:

1200 CM No. X60

2001	2051	2101	2151	2201
01 1124424	51 2244332	01 4311132	51 4311313	01 2312424
02 4432422	52 3123122	02 2344421	52 3244234	02 1323243
03 1212442	53 4232244	03 1323123	53 1234442	03 4443123
04 4221134	54 1324224	04 1231134	54 1132224	04 2423423
05 3123123	55 2443342	05 3113223	55 2344313	05 1224211
06 1242132	56 2113123	06 3121332	56 4234421	06 3112421
07 1244232	57 2421124	07 3342234	57 1231344	07 4311321
08 4211342	58 3124334	08 4233234	58 1231124	08 3343422
09 2433324	59 1134344	09 4231224	59 3422134	09 3123132
10 4221113	60 1331322	10 1331221	60 2231124	10 3321342
11 4422113	61 4233312	11 2334434	61 2223133	11 4343212
12 2233124	62 3431244	12 4313244	62 4334223	12 3442421
13 2432231	63 3232431	13 4423311	63 3113244	13 4221124
14 3113442	64 2224311	14 2213234	64 2442423	14 3123434
15 3124324	65 2342244	15 4213124	65 2322313	15 1324311
16 2134342	66 4234422	16 1323422	66 3224434	16 2431232
17 3242311	67 2221313	17 4323213	67 4323243	17 3122442
18 2131334	68 2243344	18 4433311	68 2423343	18 3212313
19 4432332	69 4343242	19 1121224	69 4212311	19 3234231
20 4421312	70 4432213	20 2432431	70 1224343	20 1213324
21 3123443	71 4343324	21 2423331	71 2243432	21 4213321
22 1122243	72 2113422	22 2422443	72 2334342	22 1112422
23 2112134	73 2124342	23 2312213	73 2111343	23 3124323
24 4312342	74 2111322	24 3342442	74 3223234	24 3443132
25 3122113	75 3442133	25 4322213	75 3421231	25 3113224
26 4231223	76 2211324	26 4423134	76 2234442	26 3134213
27 4331244	77 1342223	27 3224313	77 4434233	27 4423422
28 2433113	78 2234432	28 1133431	78 4321313	28 4432124
29 3244422	79 1321123	29 4232131	79 2312323	29 3432432
30 4333244	80 1344231	30 3134432	80 3331224	30 3343242
31 2444323	81 3443431	31 4432432	81 4223434	31 2431322
32 1344331	82 2221311	32 3223424	82 4323123	32 4421122
33 4223234	83 2443331	33 3234431	83 2244313	33 2231112
34 1343124	84 1133324	34 3123311	84 1133434	34 2242344
35 2233113	85 1213233	35 2112431	85 3434231	35 3224213
36 4321244	86 4243131	36 4333242	86 2123443	36 2442421
37 4432342	87 4242342	37 1124431	87 1324234	37 2113434
38 3423112	88 3113312	38 4332424	88 3312124	38 2431311
39 4324234	89 4431212	39 3244323	89 3132231	39 2333124
40 4342312	90 2433234	40 4442112	90 2443323	40 3422423
41 1222134	91 1112434	41 2444211	91 2324421	41 2421343
42 4442322	92 4234231	42 1343113	92 1223133	42 2332421
43 1213442	93 4423433	43 3313221	93 4211231	43 3443423
44 4231132	94 2442311	44 3312422	94 2231311	44 4423233
45 3442422	95 4432211	45 2332134	95 3321344	45 1343442
46 3442312	96 2423434	46 4231321	96 3124342	46 2443113
47 2434423	97 4244211	47 3444323	97 4432231	47 4431234
48 4243213	98 3423243	48 1333242	98 2422134	48 4213433
49 1112243	99 4242131	49 1322342	99 2442134	49 1311242
50 3124423	00 2332424	50 3212443	00 4212313	50 1212313





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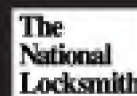
## J0001-3580 CHRYSLER

**Keyblanks:**  
Original 595895  
Silca CY19  
Curtis Y155

**Code Machines:**  
1200 CM No. X60

2251	2301	2351	2401	2451
51 2312312	01 1124233	51 2111242	01 2422434	51 3134234
52 4313324	02 4213332	52 4234232	02 4224324	52 3311213
53 1112443	03 2133422	53 3224211	03 3242213	53 2331344
54 4222131	04 3442431	54 2444213	04 4221323	54 2243433
55 2431321	05 4433112	55 3431134	05 3442342	55 3242432
56 1231224	06 4322133	56 1343422	06 3222131	56 1343244
57 1233424	07 1242231	57 2113342	07 3432224	57 4232443
58 1332242	08 4212433	58 2313321	08 1324313	58 2134331
59 4421112	09 2422331	59 3224421	09 1332232	59 3124243
60 1343213	10 4421342	60 1342244	10 4422124	60 2242334
61 3232443	11 3221313	61 3344211	11 1123234	61 1324423
62 3131242	12 1342421	62 3423311	12 4331242	62 1124324
63 1332324	13 2134322	63 3213342	13 1342122	63 2423134
64 3311324	14 2432443	64 2133234	14 4332234	64 1121334
65 3124442	15 2134432	65 1243423	15 4212331	65 2332324
66 3343124	16 2343242	66 4244311	16 3112122	66 3121324
67 1332124	17 4221132	67 2334234	17 2131244	67 4422243
68 2432432	18 4233231	68 2321312	18 3122324	68 3231213
69 2113343	19 2122311	69 3122131	19 2311312	69 2423132
70 3223213	20 2113421	70 1343311	20 2321342	70 4234221
71 2243113	21 1222434	71 4342132	21 2331243	71 3244421
72 1224342	22 4322423	72 4433122	22 1132344	72 2224343
73 1334243	23 4334311	73 1332422	23 4342112	73 4211243
74 3134212	24 2331231	74 4323424	24 1321321	74 4322331
75 4233311	25 2113134	75 1342324	25 3344243	75 4233134
76 1231324	26 4244323	76 1123134	26 3243123	76 3434221
77 4233422	27 3244332	77 2442133	27 4223443	77 3221244
78 2334423	28 4342122	78 1224233	28 4232231	78 4421331
79 3231232	29 2442321	79 1332423	29 2124433	79 3431242
80 4213122	30 4311342	80 4212132	30 4343124	80 3113423
81 2243331	31 1323312	81 4324431	31 3313244	81 3112424
82 3324424	32 4422342	82 2343244	32 2124343	82 4332243
83 2423424	33 3242343	83 2443311	33 4424331	83 4431334
84 3244313	34 4322231	84 3131223	34 1334231	84 3223113
85 4234213	35 2124443	85 3124433	35 4442122	85 4334431
86 2442113	36 3421323	86 2331311	36 2211213	86 2134422
87 4431123	37 4434211	87 4313321	37 2321323	87 4211331
88 1131234	38 2423311	88 1124442	38 1122431	88 4431242
89 4323244	39 4433422	89 4331322	39 2432133	89 3121134
90 2323123	40 2122134	90 3342312	40 4432324	90 3322132
91 2221344	41 3121224	91 2423421	41 3422324	91 3434431
92 1223113	42 3112433	92 4324421	42 1233434	92 4223244
93 3432421	43 2232431	93 4322324	43 2243324	93 4231221
94 4423243	44 2444232	94 1332342	44 4243113	94 3324432
95 3324344	45 3222433	95 2344212	45 1333244	95 4312321
96 3424322	46 1244334	96 3431231	46 2431332	96 2442131
97 1322311	47 2312311	97 1344234	47 3213231	97 3213442
98 3312242	48 1333442	98 1113423	48 3432434	98 2313322
99 3113342	49 3424234	99 1321224	49 3243324	99 3424433
00 4324223	50 1321244	00 3213242	50 2213313	00 4433132





## J0001-3580 CHRYSLER

### Keyblanks:

Original 595895  
Silca CY19  
Curtis Y155

### Code Machines:

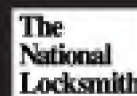
1200 CM No. X60

2501	2551	2601	2651	2701
01 1331212	51 4313422	01 4431223	51 2132124	01 4312242
02 3112422	52 4342324	02 4431132	52 1212343	02 4213223
03 1334431	53 2423123	03 1242344	53 3342244	03 1231331
04 3232231	54 1223132	04 3122133	54 1234231	04 2434322
05 2443324	55 4222431	05 4313243	55 3234434	05 2442132
06 4421124	56 3113434	06 3322424	56 4431324	06 2334422
07 2231331	57 3443112	07 3121244	57 4422323	07 4234224
08 2434334	58 4242133	08 4223342	58 2112133	08 2112313
09 3434432	59 3442232	09 4213312	59 2123113	09 2134211
10 1221213	60 1242131	10 1134424	60 4433212	10 2331134
11 4443332	61 3424312	11 3442132	61 3211132	11 3324422
12 4423223	62 4312134	12 3122421	62 2431233	12 4343121
13 4242233	63 4232211	13 1243334	63 1132433	13 1323112
14 3121123	64 2112343	14 1224311	64 1132322	14 1242331
15 1343342	65 3243132	15 1234432	65 1322112	15 3423421
16 3113324	66 1231321	16 4432122	66 3131232	16 4432134
17 4211232	67 2311132	17 1322131	67 3432423	17 3431211
18 4233131	68 1342212	18 1122312	68 1323421	18 3243124
19 4432123*	69 2442342	19 1334213	69 3344212	19 4424231
20 4223423	70 2334243	20 2321324	70 1331242	20 2443134
21 1244234	71 3443124	21 4232342	71 2132134	21 4431131
22 2132432	72 2434221	22 4243211	72 3442121	22 1134231
23 3424332	73 2242113	23 3443234	73 3111232	23 2342442
24 1124423	74 3112434	24 2234312	74 1211243	24 4213443
25 1312421	75 1231234	25 1234431	75 1331132	25 3234443
26 3122112	76 2244334	26 2442334	76 3121122	26 3244433
27 1112442	77 4213132	27 1311322	77 2434431	27 1243134
28 1113234	78 3211342	28 2433134	78 3434223	28 3332244
29 1343243	79 2442433	29 2311212	79 4233242	29 3111322
30 1322443	80 4421113	30 2431123	80 4334224	30 2432324
31 4313123	81 3324223	31 1122124	81 2124331	31 2134221
32 1333421	82 2321344	32 2231243	82 4221312	32 1134443
33 1121243	83 2431132	33 1313422	83 4333424	33 4224343
34 4234322	84 2322434	34 2422431	84 2242343	34 2131324
35 4313221	85 1323213	35 1121234	85 3123312	35 1132422
36 4344312	86 1321312	36 1232344	86 1124243	36 2112424
37 1322313	87 3242331	37 3244322	87 4312424	37 4443121
38 4223313	88 3133242	38 3232434	88 1213244	38 4213313
39 4433223	89 4312433	39 4421334	89 4431311	39 4422131
40 4213244	90 3244331	40 1332224	90 2344432	40 4431321
41 1334221	91 1234244	41 4233232	91 1124432	41 4443232
42 3432131	92 4231334	42 4324342	92 1324422	42 1332442
43 1131332	93 1132334	43 4232344	93 4221133	43 4331131
44 3242131	94 1324231	44 1342211	94 1131243	44 3442433
45 3121342	95 4344231	45 1244322	95 2234244	45 1334211
46 2423431	96 2242443	46 2432134	96 1131344	46 4243311
47 4332443	97 3233242	47 4342212	97 1322343	47 1232244
48 2213113	98 2234334	48 1131244	98 2343123	48 2231234
49 4431331	99 2431234	49 2121342	99 3242243	49 4323121
50 2133443	00 2344211	50 4433342	00 4213431	50 2433122

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## J0001-3580 CHRYSLER

### Keyblanks:

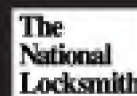
Original 595895  
Silca CY19  
Curtis Y155

### Code Machines:

1200 CM No. X60

2751	2801	2851	2901	2951
51 4233122	01 4422134	51 1233131	01 2342134	51 3242211
52 2132342	02 2243443	52 4423431	02 1321134	52 4232113
53 2443322	03 1113243	53 4342124	03 3112243	53 3434421
54 2344311	04 2134311	54 4313113	04 1334434	54 4213322
55 2313424	05 3422133	55 2431223	05 1332312	55 4421132
56 1231212	06 1324243	56 3312243	06 2231334	56 3313112
57 2243123	07 2443332	57 2311342	07 4324433	57 3344422
58 4213231	08 3421334	58 4421223	08 4243124	58 1321343
59 2443131	09 2213134	59 2111324	09 2243243	59 1321213
60 1133124	10 4232311	60 3433421	10 1132342	60 3233244
61 3223134	11 3231234	61 4344321	11 3122124	61 3213124
62 1331231	12 4231124	62 2442243	12 1124223	62 3244231
63 4423343	13 3322442	63 4434232	13 3421343	63 2243231
64 4213133	14 1131224	64 4321324	14 1124321	64 2234344
65 3121344	15 4233123	65 2342313	15 1343324	65 1224421
66 1234334	16 3111242	66 4322343	16 3124443	66 4431332
67 1244343	17 4332124	67 4222113	17 1134233	67 1134221
68 4233423	18 1342422	68 2121334	18 1323124	68 3334442
69 2211132	19 1213313	69 2244331	19 1212443	69 2321132
70 1124244	20 3324423	70 4244312	20 1312343	70 1213423
71 4212342	21 4234324	71 2431231	21 2242311	71 3313212
72 3312324	22 4342123	72 1313223	22 1132324	72 1224334
73 3313224	23 3332442	73 3422431	23 4243334	73 4433431
74 4234423	24 4312431	74 3132443	24 3442113	74 2424432
75 4321312	25 3424223	75 2213133	25 2421134	75 4243234
76 1132134	26 1221344	76 3124431	26 3422131	76 2431113
77 3434234	27 3213134	77 3243342	27 4232442	77 4332432
78 4313224	28 2432131	78 2243234	28 3223132	78 4443231
79 3321324	29 2323443	79 4312122	29 2134232	79 1134334
80 3422311	30 3313421	80 1242431	30 3134242	80 1334242
81 1243242	31 2332344	81 3423122	31 3324231	81 3213232
82 4221343	32 4432112	82 3422124	32 2132244	82 4213434
83 3224233	33 1124334	83 4344223	33 3233424	83 3132131
84 1312212	34 4334342	84 3442212	34 2311231	84 4342342
85 3242313	35 2443133	85 4223121	35 4233132	85 2113234
86 4233443	36 4312443	86 2312432	36 2112442	86 2244243
87 2433434	37 4434321	87 4432221	37 3431243	87 4324323
88 1313322	38 3224432	88 4421311	38 4322312	88 4342343
89 2224313	39 1324431	89 2313443	39 2434324	89 1342431
90 1133242	40 1313212	90 1244331	40 4321243	90 1344211
91 4342133	41 2243431	91 3313242	41 3312423	91 3221344
92 3112124	42 2213443	92 2331312	42 2134442	92 4243324
93 3213243	43 1342112	93 1223442	43 3432213	93 3111324
94 1342113	44 1221132	94 2311213	44 1324233	94 2432234
95 2213421	45 3122342	95 1243213	45 4242234	95 4312421
96 4231213	46 3343421	96 1244211	46 3212243	96 3442233
97 2342344	47 2244311	97 1113424	47 1122443	97 3324244
98 4434331	48 2332442	98 3443211	48 3422231	98 4342313
99 3213132	49 2423121	99 1213424	49 2234433	99 1321332
00 4224323	50 4312324	00 4431342	50 1243211	00 1344324





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## J0001-3580 CHRYSLER

### Keyblanks:

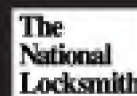
Original 595895  
Silca CY19  
Curtis Y155

### Code Machines:

1200 CM No. X60

3001	3051	3101	3151	3201
01 3132434	51 1224331	01 4331213	51 4424323	01 3221324
02 1342342	52 2433244	02 1113443	52 2221343	02 2132112
03 3342423	53 3243213	03 2322343	53 4232112	03 4433312
04 1213443	54 2133134	04 4212113	54 3432443	04 3423134
05 4221112	55 2331324	05 1113223	55 3424421	05 1242313
06 4234332	56 3244211	06 4243123	56 2321343	06 3312312
07 4343223	57 2424312	07 2444231	57 3244213	07 1223443
08 3132424	58 3422342	08 1224231	58 1244313	08 1344323
09 3123223	59 2443234	09 4332423	59 2443224	09 1244213
10 2432334	60 4224421	10 3311132	60 4433211	10 4442123
11 1322434	61 4244232	11 2233434	61 2313224	11 3242244
12 1312331	62 1334224	12 2343124	62 3432234	12 3312231
13 1134212	63 4224312	13 2342213	63 4221313	13 2322133
14 3113243	64 3132242	14 3242443	64 2422131	14 4432131
15 3324434	65 2343443	15 4423112	65 3443121	15 1223424
16 4331232	66 4432121	16 4222134	66 4423132	16 4243331
17 2234421	67 1224432	17 4223133	67 2343423	17 4312422
18 2234424	68 4211323	18 2443223	68 1234213	18 3344232
19 2421323	69 2434224	19 2312123	69 2124334	19 3334422
20 4343243	70 1323342	20 1242332	70 4212431	20 1224313
21 2212313	71 3444312	21 3232213	71 2233442	21 2324342
22 1211242	72 3131244	22 4313311	72 3442124	22 1231132
23 3244343	73 3444232	23 1344242	73 2333424	23 3344423
24 3124313	74 2421123	24 3132423	74 1312322	24 2433213
25 1324332	75 4434212	25 1334443	75 4433121	25 4212133
26 1243431	76 2233132	26 3221311	76 2432124	26 1343122
27 4244313	77 2134431	27 1123122	77 2244211	27 4443211
28 3442332	78 2134223	28 2112124	78 1112343	28 2243124
29 3344242	79 2243343	29 4442321	79 2433243	29 2242313
30 3343244	80 3344431	30 2121321	80 4344233	30 2111342
31 3444221	81 4423432	31 1112324	81 4431122	31 3342324
32 2323121	82 4331243	32 2131234	82 4421343	32 1334421
33 4231324	83 2123121	33 1113433	83 1242211	33 4421323
34 2113242	84 4421131	34 2434223	84 4443312	34 3224244
35 2434332	85 2313221	35 4244221	85 4243242	35 3323124
36 3243423	86 3133442	36 3342213	86 3112423	36 4344313
37 1224243	87 3211242	37 3422443	87 3313442	37 1331213
38 3132421	88 2344323	38 1212213	88 1332432	38 1312323
39 3224344	89 3211312	39 3344234	89 3122431	39 1131324
40 1231312	90 4334243	40 2431124	90 4234321	40 1212431
41 1313443	91 4231342	41 1113232	91 2213213	41 4243221
42 1223112	92 4232234	42 1323442	92 1132132	42 1323244
43 3124221	93 3124244	43 4443331	93 3244243	43 3312232
44 2431324	94 3442243	44 4233124	94 2132233	44 4243322
45 1243344	95 2313311	45 4334324	95 4433224	45 4322433
46 2443132	96 2443312	46 3113242	96 2313124	46 1212231
47 4243323	97 1334424	47 4312432	97 3424231	47 3242334
48 2334213	98 1323324	48 3122243	98 1331244	48 3433242
49 2123124	99 4332434	49 3123243	99 1243123	49 1342234
50 1221124	00 1324244	50 4213342	00 1132231	50 1324223





## J0001-3580 CHRYSLER

### Keyblanks:

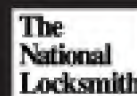
Original 595895  
Silca CY19  
Curtis Y155

### Code Machines:

1200 CM No. X60

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51 1342423	01 2131243	51 4244223	01 4422331	51 1124312
52 2433131	02 2324443	52 4332132	02 3342344	52 2331132
53 3124322	03 1231342	53 3421113	03 3213112	53 2331322
54 2431112	04 4311332	54 2344433	04 3133124	54 4243243
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56 1244312	06 3132211	56 1242133	06 3224433	56 1321324
57 4423131	07 1332424	57 1113434	07 4242311	57 2111323
58 1243313	08 1242432	58 3312134	08 4424332	58 4323112
59 4331312	09 3422113	59 2444331	09 1342322	59 3312442
60 4434231	10 2334442	60 2313112	10 1123424	60 2233131
61 4221342	11 2324312	61 2313312	11 4344211	61 1213221
62 2133131	12 4423213	62 3234242	12 3134232	62 2321334
63 4323422	13 4431231	63 3444321	13 4223134	63 2132424
64 4433232	14 2213211	64 2133224	14 2423323	64 3243121
65 1323221	15 1342224	65 4422332	15 4342213	65 2332443
66 2243112	16 3213211	66 4334232	16 1233132	66 4432113
67 4224432	17 2212443	67 4212434	17 3344421	67 1312433
68 4321332	18 4213243	68 3443134	18 3231242	68 3223124
69 1322431	19 2321332	69 3232132	19 1312313	69 2133424
70 4243231	20 3434213	70 3243131	20 2431331	70 2343121
71 4344323	21 1344313	71 3134243	21 4422421	71 4443212
72 3444331	22 2442312	72 4232433	22 2243132	72 1313321
73 2423324	23 3342132	73 4334221	23 2313422	73 2134433
74 3134244	24 3243224	74 1134322	24 4442221	74 1243312
75 3431212	25 3122432	75 3442242	25 2443343	75 1211322
76 4213212	26 1342313	76 3124211	26 1133244	76 2443121
77 1334422	27 1313213	77 4331121	27 1342334	77 2343122
78 3232244	28 2211312	78 2443211	28 4224423	78 2213112
79 4322443	29 1332231	79 4431221	29 3324224	79 3222434
80 2423342	30 2344423	80 3442131	30 3244431	80 4324343
81 2443242	31 4331132	81 1134331	31 2424321	81 1243112
82 2432213	32 4234243	82 2133231	32 3424323	82 4331112
83 1234421	33 4222313	83 1343223	33 4231322	83 4432423
84 2124324	34 2433123	84 2431131	34 4243112	84 3422323
85 1233442	35 2313212	85 4224321	35 3444212	85 2424331
86 4433324	36 3233124	86 4433124	36 1324312	86 4332342
87 2221131	37 3443231	87 4443223	37 3434211	87 3243234
88 4422132	38 3244334	88 1133443	38 1344421	88 3134442
89 2344431	39 3123224	89 2313423	39 1244323	89 1344422
90 1334232	40 3132234	90 1313243	40 4431213	90 1221313
91 1122434	41 3244312	91 2442123	41 1112433	91 4442331
92 3243244	42 1132424	92 3443131	42 3423234	92 4321131
93 3313422	43 1244324	93 1123422	43 2342432	93 4433221
94 4231232	44 4231311	94 1334342	44 1224213	94 2131321
95 4243121	45 1312321	95 1332434	45 2342334	95 4313312
96 3422434	46 2331342	96 2431212	46 2343442	96 1324424
97 4342121	47 3443113	97 3221342	47 2121331	97 1221342
98 4233243	48 2132243	98 4221123	48 2131332	98 4242312
99 2311324	49 3242332	99 3243242	49 2344231	99 3312434
00 1124213	50 4342233	00 1313242	50 4322132	00 2243312





## J0001-3580 CHRYSLER

### Keyblanks:

Original 595895  
Silca CY19  
Curtis Y155

### Code Machines:

1200 CM No. X60

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### 3501

01 1211324  
02 4223123  
03 2231132  
04 4423423  
05 1244321  
06 1321342  
07 3122231  
08 1311232  
09 4421243  
10 1231322

11 2134344  
12 4312423  
13 3422213  
14 1312342  
15 4243223  
16 1343423  
17 3444311  
18 3224234  
19 1244212  
20 2224443

21 3342231  
22 4434221  
23 4223233  
24 1234211  
25 1134442  
26 4313212  
27 1124443  
28 2432132  
29 3123324  
30 4224234

31 3133211  
32 4334421  
33 1321313  
34 2443232  
35 4432223  
36 1322432  
37 3242433  
38 2242431  
39 4433213  
40 4334322

41 4223331  
42 4231244  
43 4232312  
44 4233113  
45 1223131  
46 1343312  
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48 4223424  
49 3323244  
50 1331134

### 3551

51 4212312  
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66 1121322  
67 1321231  
68 4331223  
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71 4321124  
72 1343421  
73 2133232  
74 3423434  
75 3424431  
76 4242334  
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78 4231134  
79 4334321  
80 4313421

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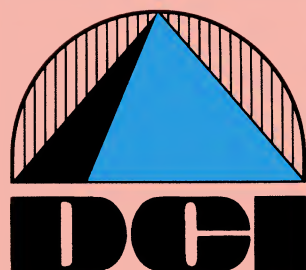
## Technitips

*Continued from page 14*

Most of the time, I am forced to work alone, answering the phone and minding the customers that walk in for a key and conversation. When I take a lock apart, I find it very helpful to mark the parts with a Sharpie permanent marking pen. A few small marks to indicate what parts were removed first, and which way they were removed, helps me reassemble the lock without problem. A small interruption, while disassembling a complicated mortise lock or other device, can leave you scratching your head when you return. Mark your parts, before and during disassembly, to avoid any confusion.

The marking pen can also be handy when removing cylinders from a building, to indicate the location of each. Knobsets that can be easily reversed, can be marked to indicate the hand of the door, allowing the cylinders to be inserted properly, "at the bench," as they are keyed. This avoids unnecessary work at the door. Keying codes can be marked, inside the trim, to indicate the keying of the lockset, without complete disassembly.

Jake Sunderland  
Arkansas



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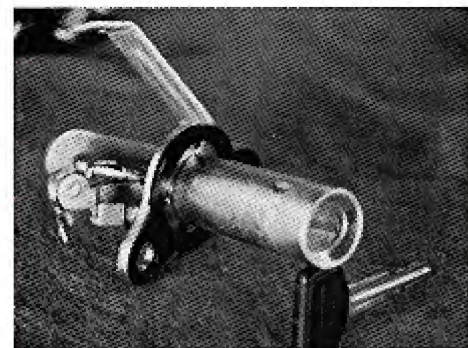
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### Celica

*Continued from page 26*



19. After removing two 10mm screws and the release cable, the lock slides out of the trunk.



20. The trunk lock.

required removing a reusable facecap and pawl. Unlike the door lock, however, a small ball bearing and spring were present. Be careful not to lose them. The trunk lock had tumblers in spaces 1-9, the ninth being a tumbler for the valet key. (See photograph 21.)



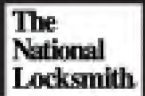
21. The disassembled trunk lock. Be careful not to lose the small spring and ball bearing.

When reassembling the trunk lock, I put the spring back into the small hole in the tail of the plug. I then slid the plug back into the cylinder just far enough to line the spring hole up with the small hole found in cylinder wall. I dropped the ball bearing into the hole and depressed it lightly while gently pushing the plug into position.

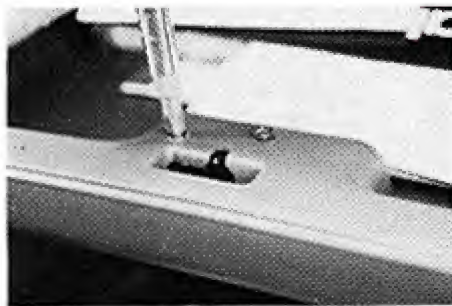
Removing the glovebox lock was a matter of removing two retaining screws and maneuvering the lock away from the door. (See photograph 22.) Depressing a retainer on the back of the plug allowed it to slide out the front. (See photograph 23.) The

*Continued on next page*

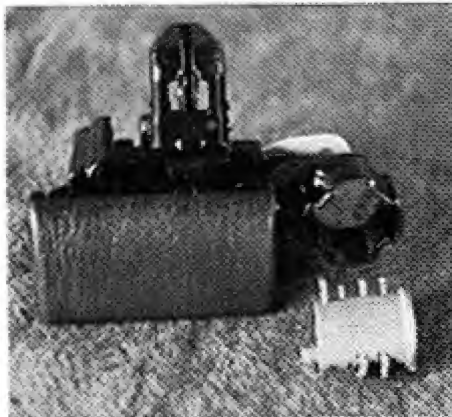




Continued from previous page



22. Removing the glovebox lock.



23. The disassembled glovebox lock.

glovebox lock had tumblers in spaces 5-9, the ninth being a tumbler for the valet key. §

### Mosler Teller Safe

Continued from page 60

important.

Some of these containers may yield to a frontal attack, others to a side attack, and still others to a rear entry. All are valid. Things that should influence the mode of entry include:

1. Time and ease of opening.
2. Ease of repair.
3. The competence of the safe cracker.

What is easiest is best in most cases as long as you do not short change the customer. So, study any container and come up with your own method of entry. If that fails, do some research. Safe opening and repair is always a learning experience. What we try to do here is to give you some shortcuts on simple stuff so you can devote more time to greater challenges.

Share your knowledge with others. Share it with me and I will pass it along. Thanks. Open and prosper! §

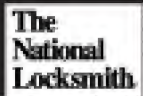
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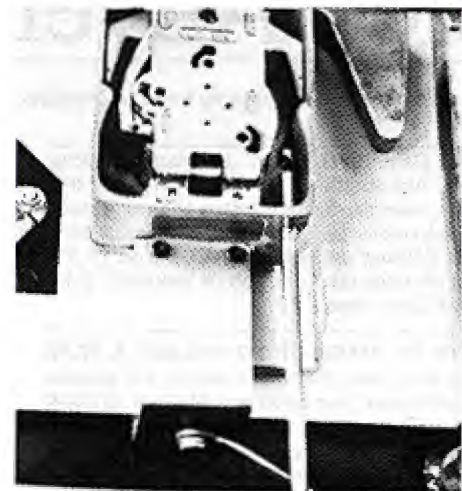


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**Lord Safe**

*Continued from page 66*



5. The scope passed through the door frame and the end wall of the lock case. A perfect upward view of all four wheels.

This included discussions on where and why certain steps were being taken, and progressive views into the drilled hole by all participants. Straight opening time would probably be less than an hour.

Template illustration courtesy of Ed Willis. For information on the "Illustrated Safe and Vault Manual" of templates, Contact Ed Willis, P.O. Box 636, Temple City, CA 91780. §

**Sentry Safe**

*Continued from page 69*

and 4310. These safes can be ordered in a choice of colors: off-white, sable beige, or dove grey.

Along with the Cor-Key lock, these safes carry the Underwriters Laboratories (UL) classification for One-Hour Fire Endurance up to 1700 degrees Fahrenheit. In addition, the safes have passed the UL Explosion Hazard Test, remaining intact at up to 2000 degrees.

Models 4110, 4130 and 4310 also carry the UL rating for safety in a 30-foot drop Fire and Impact Test.

"Sentry Fire-Safe products with Cor-Key locks provide the kind of protection every business or service organization needs—with the added security of simple key recoding and replacement," said Westman. "By introducing safes with the Cor-Key lock exclusively into the locksmith market, Sentry demonstrates the company's commitment to providing sales opportunities that coincide with the specialized needs of locksmiths." §